DIGIPLEX NE ™

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V1.4
96-Zone Expandable Security and Access Control Panel

DGP-NE96

Reference and Installation Manual

PARADOX ®
SECURITY SYSTEMS

TABLE OF CONTENTS

DigiplexNE is a security and access control system with 8 on-board zone inputs (16 with zone doubling) that is expandable to 96 zones via the 4-wire combus. DigiplexNE features up to 999 users, 8 partitions, 32 doors, 32 schedules, 16 access levels, and can support up to 127 modules in any combination.

DigiplexNE systems provide the highest level of protection for banks, high-security military and government sites, luxurious residential homes and any place where maximum security is essential. These systems are designed to be easy to use, and the modular concept of these systems provides installer's with labour-saving features that make expanding, installing and servicing these systems quick and convenient.

Expand the DigiplexNE system by adding plug-and-play expansion modules anywhere and in any combination on the 4-wire combus. Modules are connected to the combus at the most convenient location and then their zone inputs are assigned to the desired zone and partition. Also, only a module's used inputs are assigned to zones in the system. Keyswitches, remote controls and unused module inputs do not use up zones. Once installed, all combus modules, including motion detectors, can be programmed remotely via a keypad or the WinLoad upload/download software.

DigiplexNE also supports 32 virtual zones in addition to its 96 security zones and 32 access control doors. Virtual zones can be used to automate PGM activations without occupying a security zone and without affecting the system's security functions. DigiplexNE is a logical solution to every installer's security, access control and home automation installation needs.

CTR-21 APPROVAL
The DigiplexNE control panel (DGP-NE96) meets the European Union Common Technical Requirement CTR-21. The CTR-21 requirement is an electrical standard that defines the analogue interface for all two-wire telecommunications equipment (i.e. DECT, PABXs, etc.) intended for connection to the Public Switched Telephone Network. This allows the DigiplexNE control panel to be used in as many as 19 countries, such as Belgium, Germany, Greece, Portugal, Sweden and Switzerland. DigiplexNE control panels with the CTR-21 approval are available as an option only.

1.1 FEATURES

◆ Digital combus:
  • Provides constant power, supervision and two-way communication between the control panel and all its modules
  • Supports up to 127 modules
  • Connect modules up to 3000ft (914m) from the panel
  • Sabotage-proof technology without additional wiring
◆ 96 addressable zones
◆ 8 partitions
◆ 998 user codes, 1 System Master code and 1 installer code
◆ Built-in access control
◆ 2048 stored events
◆ 1 telephone line and optional secondary telephone line
◆ Remote diagnostics and pager messaging
◆ False alarm prevention features
◆ 32 independent keyswitch zones (does not use any of the 96 zones)
◆ 8 on-board hardwired input terminals
◆ 3 on-board fully programmable outputs (PGMs):
  • 1 normally open, high-current transistor output (100mA)
  • 2 normally open or normally closed 5A programmable relay outputs
  • Up to 32 more PGM inputs through the Keyswitch's PGM Input feature
◆ PGM1 can be set as a two-wire smoke detector input
◆ Event reporting:
  • a separate dialing sequence for each partition
  • 4 Monitoring Station Telephone Numbers
  • SIA, Contact ID, Ademco Contact ID Edition 2000, Pager Format and many more communicator formats

1.2 SPECIFICATIONS

CONTROL PANEL (NON-UL SYSTEMS)

AC Power:	16Vac, 20/40VA, 50-60Hz
Battery:	12Vdc, 4Ah minimum
Auxiliary Power:	12Vdc 600mA typical, 700mA maximum, fuseless shutdown at 1.1A
Bell Output:	1A, fuseless shutdown @ 3A
PGM Output:	PGM1 (100mA), PGM2 and PGM3 (5A relay)
Event Buffer:	2048 events

All control panel outputs are rated to operate between 10.8Vdc and 12.1Vdc

CONTROL PANEL (UL COMPLIANT SYSTEMS)

AC Power:	16Vac, 40VA, 60Hz
Battery:	12Vdc, 4Ah minimum
Auxiliary Power:	11.4 to 12.5Vdc, 200mA maximum, fuseless shutdown at 1.1A
Bell Output:	11.4 to 12.5Vdc, 1A maximum, fuseless shutdown @ 3A
PGM Output:	PGM1 (100mA), PGM2 and PGM3 (5A relay)
Event Buffer:	2048 events

All control panel outputs are rated to operate between 11.4Vdc and 12.5Vdc

Specifications may change without prior notice.

UL Note: The DGP-NE96 control panel has been tested with the LCD Keypad (DGP2-641) only.

General Note 1

Please note that only LCD and Grafica keypads can be used to program the DigiplexNE system. LED keypads cannot be used to program the system.

General Note 2

Please note that the steps may differ when programming with the Grafica keypad (DNE-K07). If not indicated, refer to the complete Grafica User Manual, which can be downloaded for free from our Web site at www.paradox.ca.

2.1 RECOMMENDED INSTALLATION PROCEDURE

In order to facilitate installation, we recommend connecting the modules in small groups and verifying the system after every group is connected, instead of verifying the system only after all modules are connected.

Step 1: Install the control panel.

Step 2: Connect a small group of modules, including a keypad, to the combus.

Step 3: Connect the battery and then connect the AC power. Enter section **[4000]** to verify if all the connected modules' serial numbers appear (see section 11.19 on page 34). If all the modules appear in section [4000], only the Clock Loss trouble and/or Bell Absent trouble should appear on the keypad. Verify the connection if a module does not appear in section [4000], or if a module trouble occurs.

Step 4: If another group of modules needs to be connected, disconnect AC power and the battery, and then continue the installation by following steps 2, 3 and 4.

Step 5: If modules were removed from the combus, enter **[4005]** to remove them from the panel's memory (see section 11.18 on page 34).

Step 6: Connect an LCD Keypad at various points farthest from the control panel and use the keypad's built-in Voltmeter to verify the combus's voltage (refer to the Digiplex/DigiplexNE LCD Keypad Reference & Installation Manual).

2.2 LOCATION & MOUNTING

Before mounting the cabinet, push the five white nylon mounting studs into the back of the cabinet. Pull all cables into the cabinet and prepare them for connection before mounting the circuit board into the back of the cabinet. Select an installation site that is not easily accessible to intruders and leave at least 2" around the panel box to permit adequate ventilation and heat dissipation. The installation site should be dry and close to an AC source, ground connection and telephone line connection.

2.3 EARTH GROUND

Connect the zone and dialer ground terminals from the control panel to the enclosure and cold water pipe or grounding rod as per local electrical codes.

⚠️ *For maximum lightning protection, use separate earth grounds for the zone and dialer grounds (see Figure 2-3 on page 5).*

2.4 AC POWER

Use a 16.5Vac (50/60Hz) transformer with a minimum 20VA rating to provide sufficient AC power. For increased power use a transformer with a 40VA rating. *For UL Listed systems, use model #BE156240CAA. For CSA listed systems, use model #BE116240AAA.* Do not use any switch-controlled outlets to power the transformer. Connect the transformer as shown in Figure 2-3 on page 5.

⚠️ *Do not connect the transformer or the backup battery until all wiring is completed.*

PLEASE NOTE: When powering up the DGP-NE96 control panel (V1.02 or higher), the panel will begin a module scan to verify if all the modules connected to the control panel are operational. The scanning process will take between 30 and 120 seconds to complete depending on the number of modules connected to the control panel. The module scan is complete when the keypad begins to show the partition status. Only after the module scan is complete will the control panel be fully operational.

2.5 BACKUP BATTERY

To provide power during power loss, connect a 12Vdc 4Ah rechargeable acid/lead or gel cell backup battery (YUASA model #NP7-12 recommended) as shown in Figure 2-3 on page 5. Connect the backup battery after applying AC power. When installing, verify proper polarity, as reversed connections will blow the battery fuse. For details on how to set the Battery Charge Current to either 350mA or 700mA, see section 11.5.

2.5.1 Battery Test

The control panel conducts a dynamic battery test under load every 64 seconds. If the battery is disconnected, if its capacity is too low or if the battery voltage drops to 10.5 volts or less when there is no AC, the "Battery Trouble" message will appear in the Trouble Display. At 8.5 volts, the panel shuts down and all outputs close.

2.6 AUXILIARY POWER TERMINALS

The auxiliary power supply can power the motion detectors, keypads and other accessories in the security system. A fuseless circuit protects the auxiliary output against current overload and automatically shuts down if the current exceeds 1.1A. Auxiliary power will resume once the overload condition has restored. For details on available output power, please refer to Figure 2-3 on page 5. To calculate power consumption, see *Calculating Power Requirements* on page 6.

2.7 BELL/SIREN OUTPUT

The BELL+ and BELL- terminals power bells and/or other warning devices that require a steady voltage output during an alarm. The bell output supplies 12Vdc upon alarm and can support one 30-watt or two 20-watt sirens. The bell output uses a fuseless circuit and will automatically shut down if the current exceeds 3A. If the load on the BELL terminals returns to normal (≤3A), the control panel will re-instate power to the BELL terminals. When connecting sirens, please verify correct polarity as shown in *Figure 2-3*. PGM2 and PGM3 are relays rated at 5A each and can be used to power bells and/or other warning devices by programming them as a bell/siren outputs (see section 10 on page 31).

⚠️ *When the bell output is not used, the "Bell Absent" message appears in the Trouble Display. To avoid this, connect a 1kΩ resistor across the bell output. UL Note: The keypads must be programmed to beep with all troubles.*

2.8 PROGRAMMABLE OUTPUTS

The control panel comes standard with PGM1 to PGM3. When a specific event or condition occurs in the system, a PGM can be programmed to reset smoke detectors, activate strobe lights, open/close garage doors and much more. For details on how to program the PGMs, refer to section 10.

PGM1 is 100mA (max.) normally open output. PGM2 and PGM3 are 5A relay outputs that can be normally open or normally closed. If the current draw on PGM1 is to exceed the current output, we recommend using a relay as shown in Figure 2-1. PGM1 can be programmed as a 2-wire smoke detector input (see section 2.17.1 on page 9 and section 10.6 on page 31).

Figure 2-1: PGM & Relay
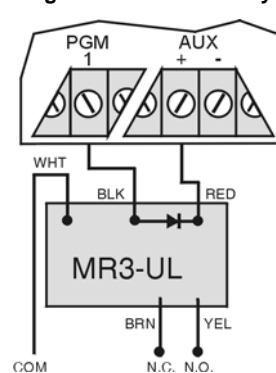
2.9 KEYSWITCH CONNECTIONS (NOT VERIFIED BY UL)

Connect the keyswitches to the keypad, control panel, or Zone Expansion Module's hardwired input terminals as shown in Figure 2-2. Once a keyswitch is connected, it must be assigned a keyswitch zone and its parameters must be defined as described in *Keyswitch Programming* on page 16.

Figure 2-2: Keyswitch
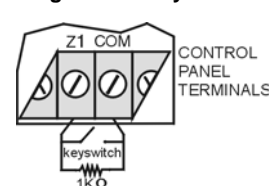
2.10 ACCESS CONTROL CONNECTIONS

For all access control explanations and connection drawings, refer to *Access Control: System Features* on page 38.

Figure 2-3: DigiplexNE Control Panel Wiring Diagram

Red "LINE#1" and "LINE#2" LEDs:
Illuminated - If the control panel is using a telephone line, the panel will display which line it is using by illuminating a telephone line LED. If the control panel is using Line 1, the "LINE#1" LED will be illuminated. If the control panel is using Line 2, the "LINE#2" LED will be illuminated.

Red "STATUS" LED:
Flashing - Indicates proper operation.
Fast Flash - Indicates a control panel failure.
Off - Control panel error.

Built-in RTC
See also the "MEM KEY/TM1" connector warning.

Charging and battery test LED (every 64 seconds).

SERVICE KEYPAD
YEL
GRN
AUX -
AUX +

Four pin connector can be used for quick installation of a keypad or module.

CAUTION: Disconnect the battery before replacing the fuse.

Optional connector can be used to recharge another battery in the system or to the connect a secondary battery.

12Vdc 7Ah Rechargeable Acid/Lead or Gel Cell Backup Battery

WARNING:
Improper connection may result in damage to the system.

Transformer

AC Power

DGP2-ZX4

Same ground connections as the panel, but do not connect the DGP2-ZX4's ground directly to the control panel's ground.

For the hardwire connections, see Single Zone and Double Zone Connections.

Reset Jumper

WARNING!
Do not connect a DGP2-TM1 Time Module to the "mem key/tm1" connector. Connecting a DGP2-TM1 will create time errors within the panel and features that use the control panel's internal clock (ex.: Auto-arming) will not function correctly.

Combus

For the hardwired connections, see *Single Zone Input Connections* on page 8 and *Double Zone Connections* on page 8.

AUX Power (Auxiliary):
Refer to the transformer requirements for the Auxiliary Power Output. Also, refer to the Power Unit Consumption Table. To connect additional wiring to auxiliary power, use the red (+) and black (-) keypad connectors. Auxiliary power will shut down if the current exceeds 1.1A.

Connecting the Earth Connections

AWG#14 single conductor solid copper wire
Ground clamp
To metallic enclosure
Cold water pipe grounding

To provide maximum lightning protection we strongly recommend having separate earth connections for the dialer and zone ground terminals.

Transformer Requirements:	Minimum: 16.5VAC; 20VA
Auxiliary Supply can provide:	typical 600mA max. 700mA
Usable Battery Charge Currents:	350mA

Inset 1: Connecting the Bell/Siren

Bell/Siren
1KΩ resistor*
(+)
AC AC BELL + -

The "bell" output will shutdown if the current exceeds 3A.

*A 1KΩ resistor is required if the Bell is not equipped with an internal resistor. The resistor must be connected between the Bell's negative (-) and positive (+) wires. Position the resistor as close as possible to the Bell. A resistor is not required for sirens.

(-)
PGM3 COM N.C. N.O.
AUX + -
Z1 com
(-) (+)
1KΩ resistor*
Bell/Siren

KEYPAD
Z1 PGM RED BLK GRN YEL

DETECTOR
RED BLK GRN YEL

ANY MODULE
RED BLK GRN YEL

WHT
RED BLK
MR3 (optional) UL Relay
COM N.C. N.O.
BRN YEL

1KΩ EOL*
Door Contact

* if EOL is enabled in the control panel

The combus supports a maximum of 127 modules. Although external power supplies can be used to provide power to modules connected far from the control panel, the total distance of all runs of wire combined cannot exceed 914m (3000ft). For example, if ten runs of wire measuring 305m (1000ft) each are connected to the control panel, the total distance would be 3048m (10, 000ft), which exceeds the system's capacity.

WARNING: Before adding any module to the control panel make sure you shutdown the control panel by removing AC power and the battery.

When installing the combus wires in a noisy environment, or when connecting the combus across separate buildings, you must use a shielded cable. Refer to section 2.16.1 on page 9.

PLEASE NOTE: It is strongly recommended that you test your system on a weekly basis, and have your system checked by a qualified technician a minimum of every 3 years.

Please see "UL and ULC Warnings" on page 59 for applicable UL/ULC warnings and information.

PLEASE NOTE: When powering up the DGP-NE96 control panel (V1.02 or higher), the panel will begin a module scan to verify if all the modules connected to the panel are operational. The scanning process will take between 30 and 120 seconds to complete depending on the number of modules connected to the control panel. The module scan is complete when the LCD keypad begins to show the partition status. Only after the module scan is complete will the control panel be fully operational.

2.11 CALCULATING POWER REQUIREMENTS

Table 1: Power Unit Consumption Table

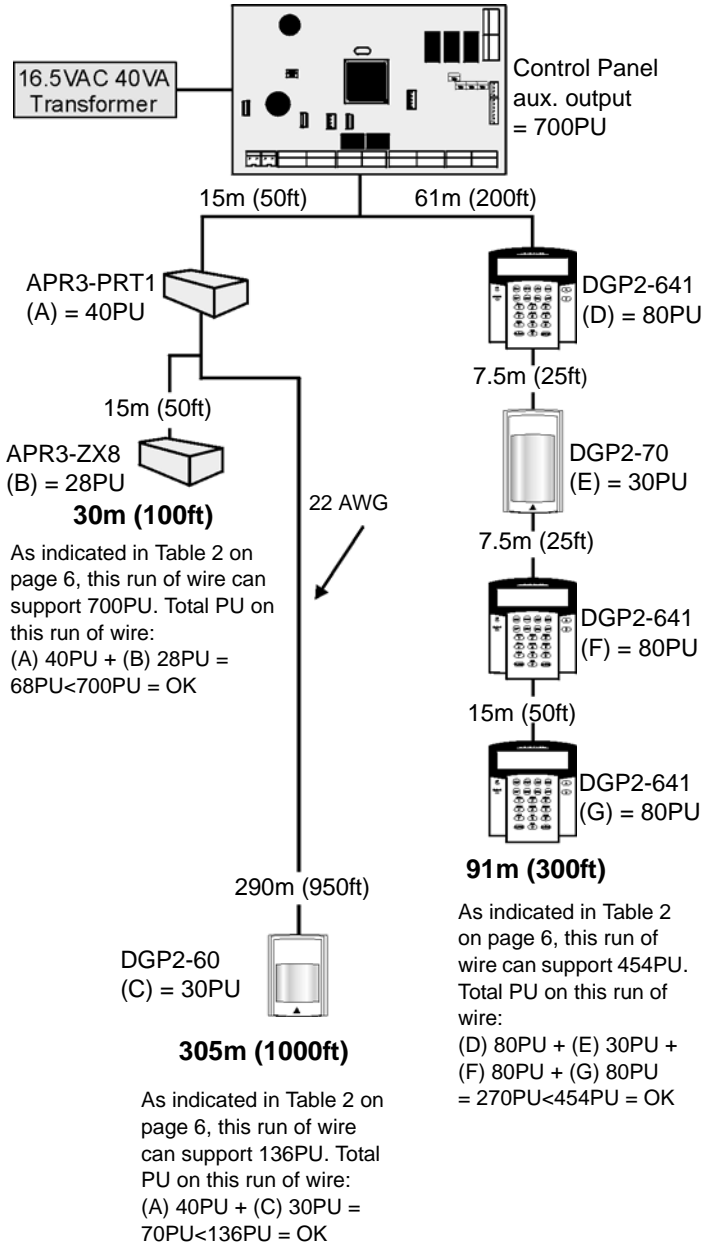| Description	QTY.	PU used by each	Total PU
Grafica Graphic LCD Keypad (DNE-K07):	_____	X 150PU =	_____ PU
LCD Keypad (DGP2-641):	_____	X 80PU =	_____ PU
LED Keypad (DGP2-648):	_____	X 115PU =	_____ PU
Addressable Detectors (DG85, DGP2-50/60/70):	_____	X 30PU =	_____ PU
Addressable Door Contact (DGP2-ZC1):	_____	X 30PU =	_____ PU
1-Zone Hardwire Expansion Module (DGP2-ZX1):	_____	X 14PU =	_____ PU
4-Zone Hardwire Module (APR3-ZX4):	_____	X 28PU =	_____ PU
8-Zone Hardwire Module (APR3-ZX8):	_____	X 28PU =	_____ PU
Wireless Module (OMN-RCV3):	_____	X 50PU =	_____ PU
1-PGM Output Module (APR3-PGM1):	_____	X 28PU =	_____ PU
4-PGM Output Module (APR3-PGM4):	_____	X 150PU =	_____ PU
Printer Module (APR3-PRT1):	_____	X 40PU =	_____ PU
DVACS Module (DGP2-DVAC):	_____	X 40PU =	_____ PU
Annunciator Module (DGP2-ANC1):	_____	X 105PU =	_____ PU
InTouch Voice-Assisted Arm/Disarm Module (APR3-ADM2):	_____	X 105PU =	_____ PU
Access Control Module (DGP2-ACM1P): Note: The DGP2-ACM1P consumes 165PU from its own power supply	_____	X 165PU =	_____ PU
Maximum available power units = **700PU**		**GRAND TOTAL**	_____ **PU**

STEP 1: Using Table 1, calculate the total number of power units (PU) required by each device, module, and accessory in the system. Please take into account devices connected to the control panel's PGM outputs. Since the BELL output has its own power supply, do not include the sirens connected to it in the calculation.

STEP 2: If Grand Total is less than 700PU, go to step 3. If the value is greater, an external power supply is required (see Figure 2-5 on page 7) to provide the additional power needed. Proceed with step 3 and refer to the example in Figure 2-4 on page 7.

STEP 3: Due to the degradation of a power signal over long distances, **EACH** length or run of wire in the system can support only a specific number of power units (PU). Using Table 2, determine how many power units each length of wire can support. Please note that the total number of power units (PU) can never surpass 700PU.

Table 2: Power Unit (PU) Limitations For Each Run of Wire

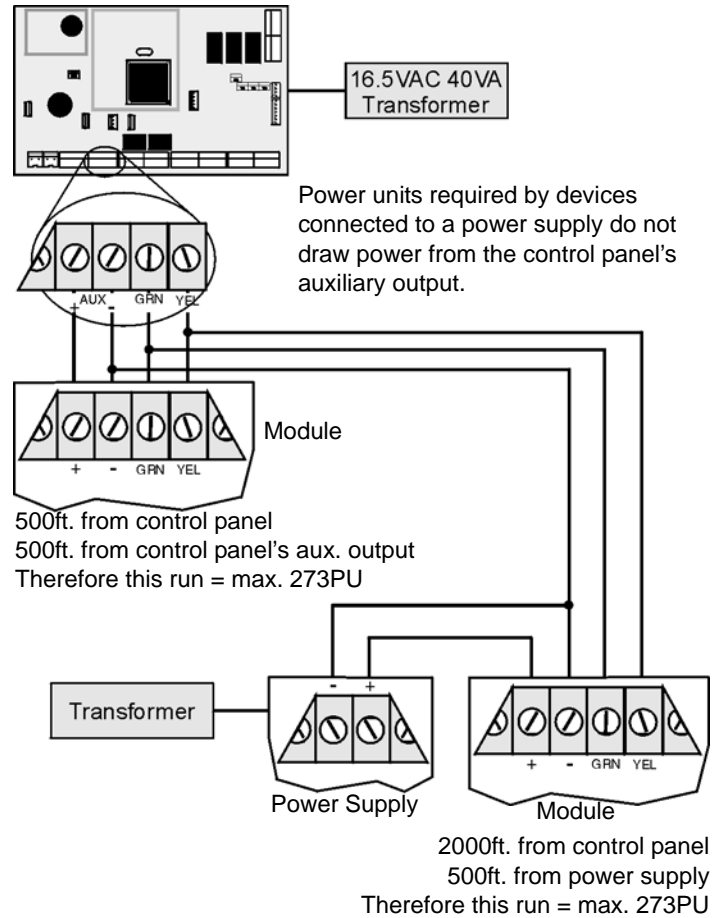| Gauge: **18AWG**, Surface: 0.823mm^2		Gauge: **22AWG**, Surface: 0.326mm^2		Gauge: **24AWG**, Surface: 0.205mm^2	
Length of each run of wire	Available Power Units (PU)	Length of each run of wire	Available Power Units (PU)	Length of each run of wire	Available Power Units (PU)
100ft. (30m)	700	100ft. (30m)	700	100ft. (30m)	700
200ft. (61m)	700	200ft. (61m)	682	200ft. (61m)	429
300ft. (91m)	700	300ft. (91m)	454	300ft. (91m)	286
400ft. (122m)	700	400ft. (122m)	341	400ft. (122m)	214
500ft. (152m)	690	500ft. (152m)	273	500ft. (152m)	171
600ft. (183m)	575	600ft. (183m)	227	600ft. (183m)	143
700ft. (213m)	493	700ft. (213m)	195		
800ft. (244m)	431	800ft. (244m)	170		
900ft. (274m)	383	900ft. (274m)	151		
1000ft. (305m)	345	1000ft. (305m)	136		
1500ft. (457m)	230				
2000ft. (610m)	172				
2500ft. (762m)	138				
3000ft. (914m)	115				

Figure 2-4: Sample Power Requirement Calculations

Power required by devices connected to control panel's auxiliary output must not exceed the auxiliary output's limit:
(A) + (B) + (C) + (D) + (E) + (F) + (G) = 368PU<700PU = OK

16.5VAC 40VA Transformer

Control Panel aux. output = 700PU

15m (50ft)   61m (200ft)

APR3-PRT1 (A) = 40PU

DGP2-641 (D) = 80PU

7.5m (25ft)

15m (50ft)

APR3-ZX8 (B) = 28PU

DGP2-70 (E) = 30PU

30m (100ft)

7.5m (25ft)

22 AWG

As indicated in Table 2 on page 6, this run of wire can support 700PU. Total PU on this run of wire:
(A) 40PU + (B) 28PU = 68PU<700PU = OK

DGP2-641 (F) = 80PU

15m (50ft)

DGP2-641 (G) = 80PU

290m (950ft)

91m (300ft)

DGP2-60 (C) = 30PU

As indicated in Table 2 on page 6, this run of wire can support 454PU. Total PU on this run of wire:
(D) 80PU + (E) 30PU + (F) 80PU + (G) 80PU = 270PU<454PU = OK

305m (1000ft)

As indicated in Table 2 on page 6, this run of wire can support 136PU. Total PU on this run of wire:
(A) 40PU + (C) 30PU = 70PU<136PU = OK

An LCD Keypad (80PU) can be added to the 100ft. or 300ft. wire in Figure 2-4, but adding an LCD Keypad to the 1000ft. wire would exceed the wire's limits and cause devices to function at decreased capacity.

Figure 2-5: External Power Supply Connections

16.5VAC 40VA Transformer

Power units required by devices connected to a power supply do not draw power from the control panel's auxiliary output.

AUX   GRN YEL

Module

+   -   GRN YEL

500ft. from control panel
500ft. from control panel's aux. output
Therefore this run = max. 273PU

Transformer

-    +

Power Supply

+   -   GRN YEL

Module

2000ft. from control panel
500ft. from power supply
Therefore this run = max. 273PU

⚠ *Do not use the same transformer for the control panel and the external power supplies. Do not install modules more than 3000ft (914m) from the control panel.*

2.12 KEYPAD ZONE CONNECTIONS

Every keypad, except Grafica, has one hardwire input terminal allowing you to connect a detector or door contact directly to the keypad. For example, a door contact located at the entry point of an establishment can be wired directly to the input terminal of the entry point keypad instead of back to the control panel.

⚠ *Even with the ATZ feature enabled in the control panel, only one device can be connected to the keypad's hardwired input terminal. Tamper is not recognized on keypad zones. The keypad zone follows the control panel's EOL definition.*

A device connected to the keypad's input terminal must be assigned to a zone in the control panel and the zone's parameters must be defined (see *Zone Programming* on page 12). The keypad communicates the status of the zone to the control panel via the combus. The detection device is connected as shown in Figure 2-3 on page 5.

2.13 ADDRESSABLE ZONE CONNECTIONS

The control panel includes eight hardwired input terminals for use with traditional hardwired (non-combus) door contacts, smoke detectors and/or motion detectors.

The control panel also supports several hardwire zone expansion modules. Devices connected to hardwired input terminals must be assigned to a zone and the zone's parameters must be defined (see *Zone Programming* on page 12). Figure 2-6 shows single zone (ATZ disabled) hardwire input terminal connections recognized by the DigiplexNE system. For UL listed installations, use EOL resistor part #2011002000.

Figure 2-6: Single Zone Input Connections

N.C. Contacts, No EOL
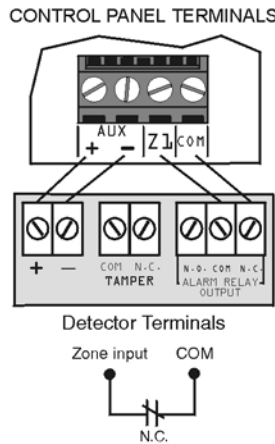
N.C., With EOL
UL/ULC Configuration

N.O., With EOL
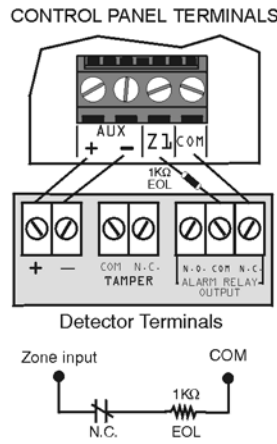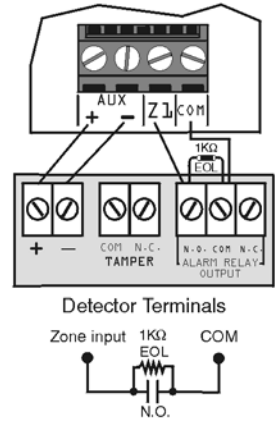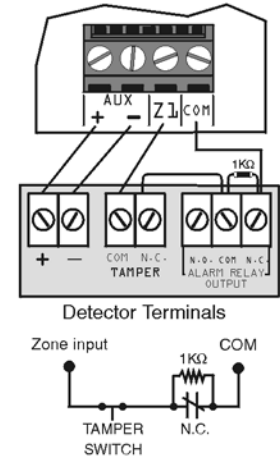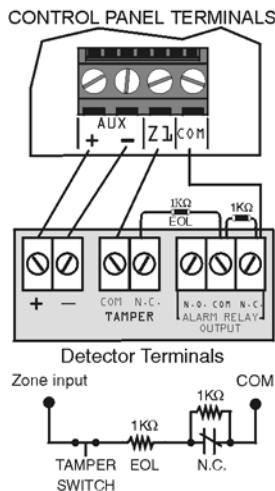#### UL/ULC Configuration

N.C. Contacts, No EOL, With Tamper Recognition
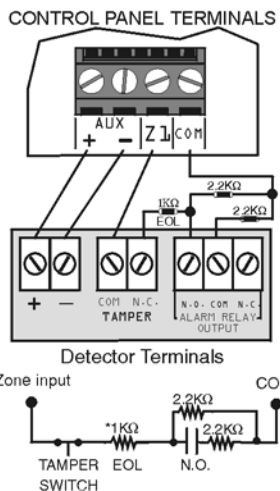

N.C. With EOL, With Tamper & Wire Fault Recognition
UL/ULC Configuration

N.O., With EOL, With Tamper & Wire Fault Recognition

Enable ATZ (see section 4.2 on page 13) and connect as follows (extra input cannot be used)

for installations without EOL, remove 1KΩ

2.14 DOUBLE ZONE CONNECTIONS

Enabling the ATZ feature (see section 4.2) allows you to install two detection devices per input terminal. Connect the devices as shown in Figure 2-7. Devices connected to input terminals must be assigned to a zone and the zone's parameters must be defined (see *Zone Programming* on page 12). For UL listed Burglary System installations only, use EOL resistor part #2011002000.

Figure 2-7: Double Zone Connections

N.C., No EOL Resistor
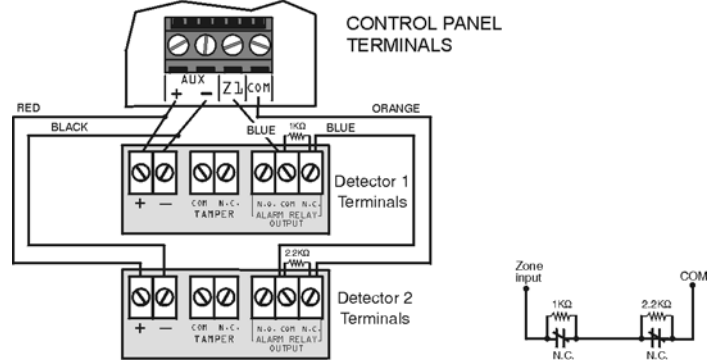
N.C., No EOL, With Tamper Recognition
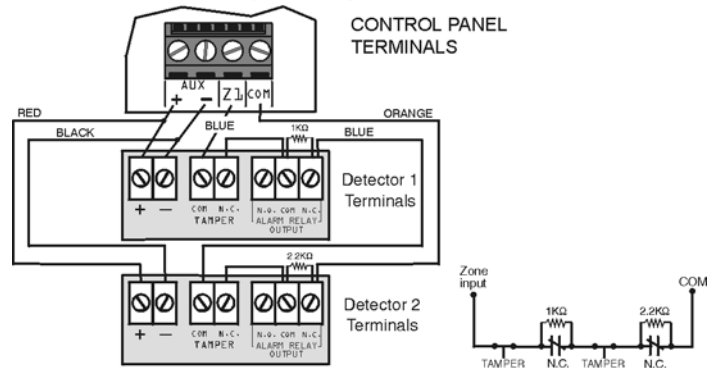
N.C., With EOL and Tamper & Wire Fault Recognition (UL/ULC)
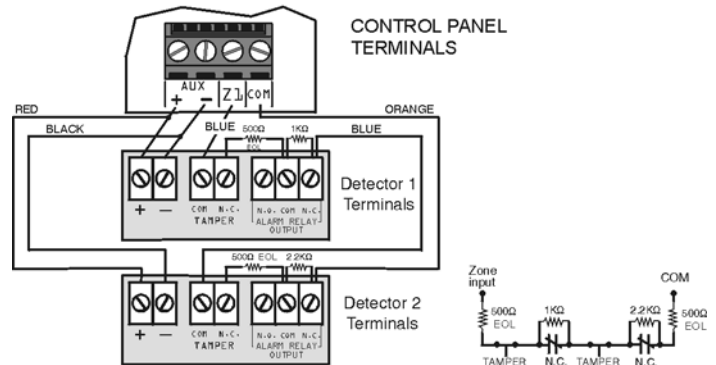
2.15 CONNECTING THE DGP2-ZX4

The 4-Zone Expansion Plug-in Device* (DGP2-ZX4*) provides four additional hardwired input terminals (8 zones with ATZ enabled). It connects directly to the control panel through its on-board EXPANSION connector as shown in Figure 2-3: on page 5. Connect detection devices to the DGP2-ZX4's terminals in the same way that they are connected to the control panel as shown in Figure 2-6 or Figure 2-7 on page 8. Devices connected to hardwired input terminals must be assigned to a zone and the zone's parameters must be defined (*Zone Programming* on page 12). For the 4-Zone Expansion Module (APR3-ZX4), refer to the DigiplexNE Modules Programming Guide.

* Do not use with UL Listed systems.

2.16 COMBUS CONNECTIONS

Modules can connect anywhere on the 4-wire combus, which can support up to 127 modules. Connect in a star and/or daisy chain configuration as shown in Figure 2-3 on page 5. The total distance of all runs of wire cannot exceed 914m (3000ft). For example, if ten runs of wire measuring 305m (1000ft) each are connected to the control panel, the total distance would be 3048m (10,000ft), which exceeds the system's capacity. To assign a detection device to a zone in the control panel, see "Zone Programming" on page 12.

⚠️ **Before connecting a module to the combus, remove AC and battery power from the control panel.**

2.16.1 Connecting the Combus in Noisy Environments

When installing the combus wires in proximity to high electrical interferences such as neon lights, motors, high-voltage wiring, transformers, or if connecting the combus across separate buildings, you must use shielded cables. Connect the shielded cable as detailed below:

Within the Same Building: Strip the outer jacket at one end of the shielded cable to expose the shield and connect the shield to the control panel ground (not the dialer ground), while leaving the shield at the other end of the cable open (floating).

Across Separate Buildings: Strip the outer jacket at one end of the shielded cable to expose the shield. In the same building that houses the control panel, connect the exposed shield to a cold water pipe or any other earth ground available, while leaving the shield at the other end of the cable open (floating). The same configuration applies for any subsequent building.

2.17 FIRE CIRCUITS

Connect the smoke detectors using any of the following methods. Assign the smoke detectors connected to the control panel or zone expansion input terminals to a zone and define the zone's parameters as a Fire Zone (see section 4 on page 12).
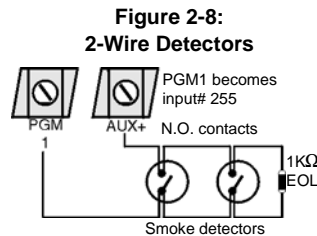
2.17.1 Smoke Detector Installation (2-Wire)*

PGM1 can be defined as a 2-wire smoke detector input (see section 10.6). Connect the 2-wire smoke detectors as shown in Figure 2-8 using a 1kΩ EOL resistor. If a line short occurs or the smoke detector activates, whether the system is armed or disarmed, the control panel will generate an alarm. If the line is open, the "Zone Fault" trouble indication appears in the Trouble Display and the report code is sent to the Monitoring Station, if programmed.

Figure 2-8: 2-Wire Detectors

PGM1 becomes input# 255
N.O. contacts
1KΩ EOL
Smoke detectors

Note: It is recommended that the smoke detectors be connected in a daisy chain configuration.

*UL Note: Not to be used with UL Listed systems.

2.17.2 ESL CleanMe® Installation

The DigiplexNE control panel supports ESL smoke detectors that have the CleanMe® feature. Connect ESL smoke detectors like the standard smoke detectors shown in Figure 2-8. Avoid connecting more than 20 ESL smoke detectors. When an ESL smoke detector sends a CleanMe signal, the control panel will generate a Zone Fault trouble and, if programmed, will transmit the Fire Loop report code to the Monitoring Station. The trouble will be cleared if there is no CleanMe signal for 255 seconds. If an alarm occurs, the trouble will be cleared until it is detected again.

2.17.3 Smoke Detector Installation (4-Wire)

Recommended: System Sensor model 2112/24D smoke detectors. Connect the 4-wire smoke detectors and a relay as shown in Figure 2-9. To comply with UL955, install the 4-wire smoke detectors with 18 gauge wire. If power is interrupted, the relay causes the control panel to transmit the Fire Loop Trouble report programmed in section **[2906]**.

To reset (unlatch), connect the smoke detector's negative (-) to a PGM. Then program the PGM with the "Smoke Detector Power Reset" activation event (see section 10.1 on page 31; Event Group #067, start # 004, end # 004) to interrupt power to the smoke detector for four seconds when the **[CLEAR]** and **[ENTER]** keys are pressed and held for two seconds.

Figure 2-9: 4-Wire Detectors
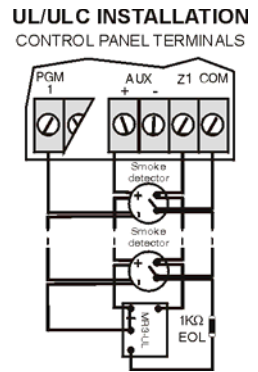
UL/ULC INSTALLATION
CONTROL PANEL TERMINALS

Note: It is recommended that the smoke detectors be connected in a daisy chain configuration.

⚠️ **If ATZ is enabled (see see section 4.2 on page 13), do not use the extra input (doubled zone). For example, in this example input 13 cannot be used.**

2.18 TELEPHONE LINE CONNECTIONS

Depending on the installation, the telephone lines can be connected directly to the control panel or through a CA38A or RJ31 as shown in Figure 2-10. The secondary telephone line terminals (optional) can be used as a backup telephone line. If the Event Call Direction process fails and the control panel is unable to communicate with the Monitoring Station through the main line, the control panel will switch to the second line and repeat the Event Call Direction process (see section 8.8 on page 27).

UL Note: Installer must verify line seizure after every installation

Figure 2-10: Telephone Line Connection Examples
Example 1:

DigiplexNE Dialer

R1 T1 RNG1 TIP1 R2 T2 RNG2 TIP2
RED GRN
GRN RED
Ground clamp
Main line
2nd line

Example 2:

DigiplexNE Dialer

R1 T1 RNG1 TIP1 R2 T2 RNG2 TIP2
GRY RED
BRN GRN
GRN RED
Ground clamp
N/U N/U
R - 1
CA38A or RJ31
RING RED
TIP GRN
T - 1
N/U N/U
2nd line
Main line
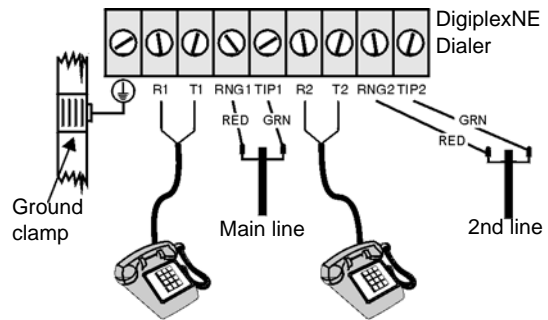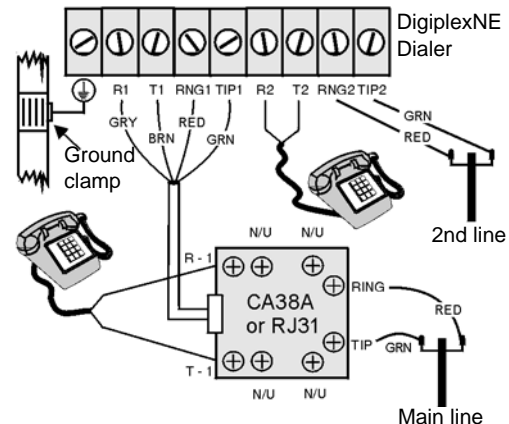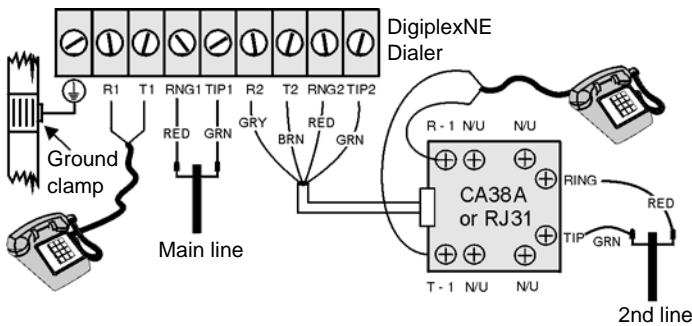
Example 3:

Example 4:
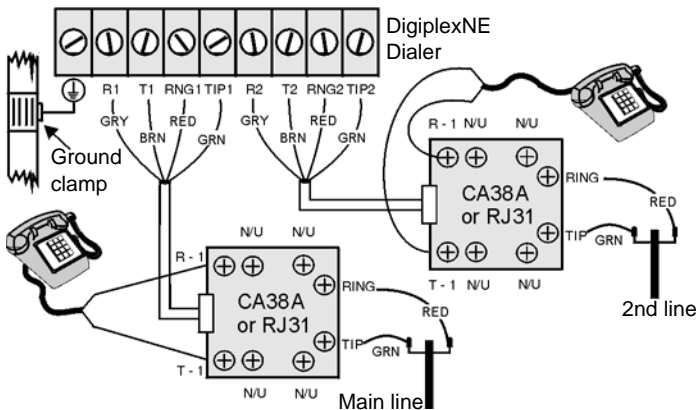
For TBR-21 compliance, please note the following:
1) The DGP-NE96 can be connected to the telephone network via an RJ-11 connector.
2) The Maximum Dialing Attempts cannot exceed 15 attempts (page 28).

2.19 BUILT-IN RTC

The DigiplexNE incorporates an RTC directly on the PC board. The RTC will save the DigiplexNE's internal clock when both the AC and battery power have been lost. After power is lost and then restored, the DigiplexNE will verify with and then retrieve the time from the RTC. The control panel will verify and compare its time with the time stored in the RTC every hour. If the times are different, the DigiplexNE will reset its internal clock to the time saved in the RTC. The RTC uses a 3V lithium battery (CR2032) with a battery life of 11 years. Change the battery as shown below:

Figure 2-11: Changing the RTC's Battery
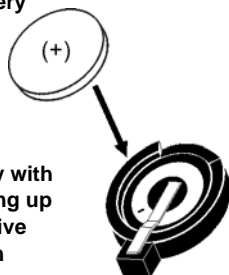
Reprogram the control panel's clock after changing the battery.

WARNING! Danger of explosion exists if the lithium battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

DigiplexNE can be programmed using the following methods:

3.1 WINLOAD UPLOADING/DOWNLOADING SOFTWARE*

We highly recommend programming the control panel with WinLoad as it greatly simplifies the process and reduces potential data errors. Refer to *Winload Software* on page 41 for details.

* UL Note: Not verified by UL

3.2 PARADOX MEMORY KEY (NOT TO BE USED WITH UL LISTED SYSTEMS)

The Paradox Memory Key can copy the programmed contents of one control panel into as many others as needed. Downloading is completed in less than 5 seconds.

Copy to Memory Key
1) Place the Memory Key on the control panel's connector labeled MEM KEY. Make sure that the write protect jumper is on.
2) Enter section:
   [4020] to copy the control panel's contents **except** sections [0001] to [0096] and [0501] to [0532] to the key.
   [4021] to copy the control panel's contents **including** sections [0001] to [0096] and [0501] to [0532] to the key.
3) When the keypad emits a Confirmation Beep, remove the Memory Key. Remove the jumper to prevent accidentally overwriting the Memory Key's contents.
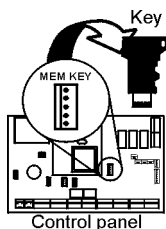
Download to Control Panel
1) Place the Memory Key on the control panel's connector labeled MEM KEY.
2) Enter section:
   [4010] to download the Memory Key's contents **except** sections [0001] to [0096] and [0501] to [0532] to the control panel.
   [4011] to download the contents of the Memory Key **including** sections [0001] to [0096] and [0501] to [0532] to the control panel.
3) When the keypad emits a Confirmation Beep, remove the Memory Key.

Figure 3-1: Using the Memory Key

Jumper ON =
Can copy and download
contents of the Memory Key

Jumper OFF =
Cannot override contents
of the Memory Key
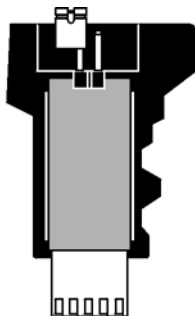
3.3 MODULE BROADCAST

Keypads and other modules can also be programmed easily by using Module Broadcast (see section 11.15 on page 33). Once a module is programmed, its sections can be sent to other similar modules through the combus.
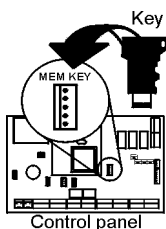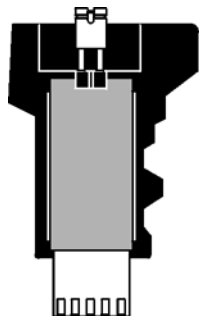
3.4 PROGRAMMING THROUGH A KEYPAD

Use the *Programming Guide* to record how the sections were programmed. To enter programming mode:

1) Press and hold the **[0]** key
2) Key in the **[INSTALLER CODE]** (Default is 000000)
3) Key in the 4-digit **[SECTION]**
4) Key in required **[DATA]**. Refer to the *Programming Guide* or to the corresponding sections in this manual.

For LCD Keypads: The control panel will save the data and automatically advance to the next section or press the **[ENTER]** key to save the data and advance to the next section. Press the **[CLEAR]** key to revert to the preceding step or to erase the current data entry.

For Grafica Keypads: After entering the required data, press Grafica's center action key (**Save**) to save the data and advance to the next section. Press the right action key (**Exit**) to revert to the preceding step or press the left action key (**Clear**) to erase the current data.

3.4.1 Feature Select Programming

Most of the options are programmed using the Feature Select Method.

For LCD Keypads: Each number from 1 to 8 corresponds to a specific feature or option. Set these options by turning the number corresponding to the feature ON or OFF. The option is considered ON when the number appears within the brackets on the LCD keypad. Turn options ON and OFF by pressing the corresponding keys on the keypad. Press the keys as many times as needed to select the desired options and then press **[ENTER]** to save.

For Grafica Keypads: Select or clear the check boxes pertaining to the options or features that you wish to enable or disable. You can also set the options by pressing the corresponding keys on the keypad. The feature is considered ON when its check box is selected. To save the settings, press the Grafica's center action key (**Save**).

3.4.2 Decimal Programming

Certain sections may require the entry of a 3-digit decimal value from 000 to 255.

3.4.3 Hexadecimal Programming

Certain sections may require the entry of one or more Hexadecimal values from 0 to F. Press:

For LCD Keypads:

[0] to **[9]**	= values 0 to 9 respectively		
[STAY] key	= A	**[DISARM]** key	= D
[FORCE] key	= B	**[BYP]** key	= E
[ARM] key	= C	**[MEM]** key	= F

For Grafica Keypads:

[0] to **[9]**	= values 0 to 9 respectively
[#]	= A to F (press the key until the desired letter appears)

3.5 MODULE PROGRAMMING MODE

All modules are programmed through any LCD or Grafica keypad in the system. To do so, enter *Module Programming Mode*:

1) Press and hold the **[0]** key
2) Key in the **[INSTALLER CODE]** (Default is 000000)
3) Key in section **[4003]**
4) Key in 8-digit **[SERIAL NUMBER]** of the module
5) Key in 3-digit **[SECTION]** and required **[DATA].** Refer to the *Module Programming Guide* for details.

The control panel will redirect all programming to the selected module. To exit the Module Programming Mode, press the **[CLEAR]** key on LCD keypads, or the right action key (**Exit**) on Grafica keypads, as many times as needed to return to the desired screen. The module's serial number can be located on the module's PC board.

ZONE PROGRAMMING

All detection devices connected to the control panel, keypads and zone expansion modules must be assigned to a zone and that zone must be defined as described in this section.

Figure 4-1: Zone Programming

```
Press & hold the
[0] key
        ↓
Key in the
[INSTALLER CODE]
        ↓
Key in 4-digit
[SECTION]
        ↓
```

Zone Numbering
Sections [0001] to [0096] represent zones 1 to 96 respectively
        ↓
Enter the 8-digit **[SERIAL NUMBER]** of the addressable detection device or module that has a hardwire device connected to it.
        ↓
Enter the module's 3-digit [INPUT NUMBER] where the hardwire device is connected.
NOTE: For addressable PIRs, door contacts and keypads, no input # is required

Zone Parameters
Sections [0101] to [0196] represent zones 1 to 96 respectively
        ↓
Zone Definition First Digit
        ↓
Zone Partition Assignment Second Digit
        ↓
Zone Options Feature Select
        ↓
Press [ENTER]

Select one only →

Zone Definitions
0- Disabled (Default) 8- 24Hr Gas
1- Entry Delay 1   9- 24Hr Heat
2- Entry Delay 2   A- 24Hr Water
3- Follow   B- 24Hr Freeze
4- Instant   C- Delayed 24Hr Fire
5- 24Hr Buzzer   D- Standard 24Hr Fire
6- 24Hr Burglary   E- Stay Delay 1
7- 24Hr Hold-up   F- Stay Delay 2

Select one only →

Zone Partition Assignment
1- Zone Assigned to Partition 1 (Default)
2- Zone Assigned to Partition 2
3- Zone Assigned to Partition 3
4- Zone Assigned to Partition 4
5- Zone Assigned to Partition 5
6- Zone Assigned to Partition 6
7- Zone Assigned to Partition 7
8- Zone Assigned to Partition 8

Select one or more →

Zone Options
[1] Auto Zone Shutdown
[2] Bypass Zone (Default)
[3] Stay Zone
[4] Force Zone

[5]	[6]	Zone Alarm Type
off	off	Audible Alarm (steady)
off	on	Audible Alarm (pulsed)
on	off	Silent Alarm
on	on	Generates only a report

[7] Intellizone
[8] Delay before transmission

4.1 ZONE NUMBERING

SECTIONS [0001] TO [0096]

The Zone Numbering feature is used to individually assign each detection device to any zone in the DigiplexNE system (see Figure 4-1). The Zone Parameters define the type of zone, the zone's partition assignment and how the control panel will react when an alarm occurs on that zone (see section 4.3 to section 4.5).

- To assign an addressable PIR or door contact to the combus, program the module's serial number into the section corresponding to the desired zone (i.e. program zone 34 in section [0034]).
- To assign a detection device connected to a module or control panel's hardwired input terminal, program the module's or control panel's serial number and the input number where the device is connected into the section corresponding to the desired zone. See the *Module Programming Guide* for details of its input numbers (input numbers not required for keypad zones).

⚠ *If PGM1 is defined as a smoke detector input (see section 10.6), the control panel will recognize it as input # 255.*

Figure 4-2: Zone Numbering

	Zone#	Section#	Serial#	Input#
Detector A:	1 =	[0001]	21000033	N/A
Hardwired Device A:	2 =	[0002]	1A000252	N/A
Hardwired Device B:	3 =	[0003]	020000A2	002
Hardwired Device C:	4 =	[0004]	34000041	005
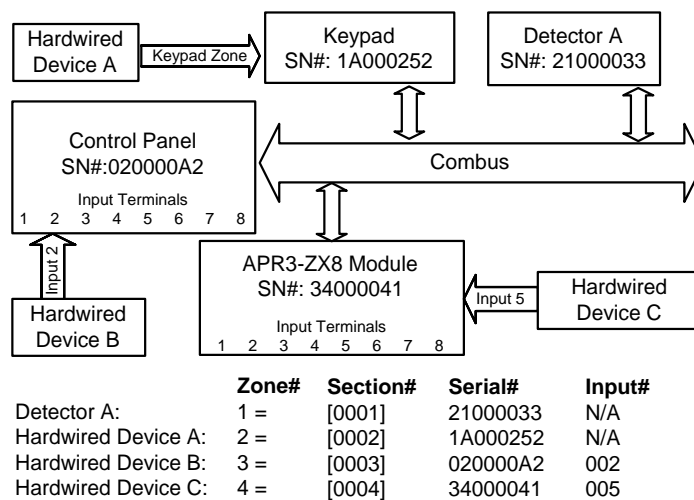
4.1.1 Clearing a Zone's Numbering

For LCD Keypads:
1) Enter a section number between **[0001]** to **[0096]**.
2) Press **[0]** and then **[ENTER]** to save and exit.

For Grafica Keypads:
1) Enter a section number between **[0001]** to **[0096]**.
2) Press **[0]** to clear the serial number
3) Use Grafica's scroll keys, highlight the input number and then press **[0]** to clear the data.
4) Press Grafica's center action key (**Save**) to save and exit.

4.2 ZONE DOUBLING (ATZ)

SECTION [3033]: OPTION [8]

(Default = disabled) The ATZ feature is a software oriented feature that enables two detection devices to be installed per hardwired input terminal (section 2.15 on page 8 and see section 2.14 on page 8). Each detection device has its own zone, displays its zone status on the keypad and sends its own alarm codes. Fire Zones cannot be doubled.

Input	Doubled Zone Input
Input 01	Input 13 (ATZ of Input 01)
Input 02	Input 14 (ATZ of Input 02)
Input 03	Input 15 (ATZ of Input 03)
Input 04	Input 16 (ATZ of Input 04)
Input 05	Input 17 (ATZ of Input 05)
Input 06	Input 18 (ATZ of Input 06)
Input 07	Input 19 (ATZ of Input 07)
Input 08	Input 20 (ATZ of Input 08)
Input 09 (DGP2-ZX4 Input 01)	Input 21 (ATZ of Input 09)
Input 10 (DGP2-ZX4 Input 02)	Input 22 (ATZ of Input 10)
Input 11 (DGP2-ZX4 Input 03)	Input 23 (ATZ of Input 11)
Input 12 (DGP2-ZX4 Input 04)	Input 24 (ATZ of Input 12)

4.3 ZONE DEFINITIONS

The 16 zone definitions from Figure 4-1 on page 12 are described below. When an alarm occurs, the control panel can send a report, activate the bell output and display the alarm in the Alarm Memory.

4.3.1 Zone Disabled

SECTIONS [0101] TO [0196]: FIRST DIGIT = 0

Disables the corresponding zone. Zones are disabled by default.

4.3.2 Entry Delays 1 and 2

SECTIONS [0101] TO [0196]: FIRST DIGIT = 1 AND 2

(Default Entry Delay 1= 030, Entry Delay 2 = 060) When an armed zone defined as an Entry Delay opens, the control panel will not generate an alarm until the Entry Delay Timer elapses. A zone defined as Entry Delay 1 follows the Entry Delay 1 Timer of its assigned partition. Likewise, a zone defined as Entry Delay 2 follows the Entry Delay 2 Timer of its assigned partition.

For example, if zone 1 is assigned to Partition 5 and is defined as Entry Delay 1, the timer follows the amount programmed in [3511].

Each partition includes two Entry Delay Timers. To program an Entry Delay Timer, key in the desired 3-digit delay value (001 to 255 seconds) into the corresponding section.

Partition 1	Partition 5
Entry Delay 1 Timer: **[3111]** Entry Delay 2 Timer: **[3112]**	Entry Delay 1 Timer: **[3511]** Entry Delay 2 Timer: **[3512]**
Partition 2	Partition 6
Entry Delay 1 Timer: **[3211]** Entry Delay 2 Timer: **[3212]**	Entry Delay 1 Timer: **[3611]** Entry Delay 2 Timer: **[3612]**

Partition 3	Partition 7
Entry Delay 1 Timer: **[3311]** Entry Delay 2 Timer: **[3312]**	Entry Delay 1 Timer: **[3711]** Entry Delay 2 Timer: **[3712]**
Partition 4	Partition 8
Entry Delay 1 Timer: **[3411]** Entry Delay 2 Timer: **[3412]**	Entry Delay 1 Timer: **[3811]** Entry Delay 2 Timer: **[3812]**

Entry Delay zones are commonly used at the entry/exit points (i.e. front/back door or garage). Using different Entry Delays is useful when one entry point requires a longer delay than another.

These are the same timers used for Stay Delay zones (see section 4.3.14).

4.3.3 Follow Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 3

If an armed Follow zone opens, the control panel generates an alarm. If an armed Entry Delay zone (see section 4.3.2) opens before the Follow zone, the control panel waits until the end of the Entry Delay before generating an alarm. If more than one Entry Delay zone opens before the Follow zone, the control panel waits until the end of the first Entry Delay before generating an alarm. This feature is commonly used when a motion detector is protecting the area occupied by the entry point keypad. This will prevent the motion detector from causing an alarm when a user enters through the entry point to disarm the system.

4.3.4 Instant Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 4

When an armed Instant zone opens, the control panel immediately generates an alarm. Instant zones are commonly used for windows, patio doors, skylights and other perimeter type zones.

4.3.5 24Hr Buzzer Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 5

Whenever a 24Hr Buzzer zone opens, whether the zone is armed or disarmed, the control panel activates the keypad buzzer to indicate that the zone was breached. The control panel will report the alarm, but will not enable the bell/siren output. Enter any valid access code on the keypad to stop the buzzer.

The keypads must be assigned to the same partition as the 24Hr Buzzer zone or the buzzer will not activate. UL Note: Not to be used for perimeter protection.

4.3.6 24Hr Burglary Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 6

When a 24Hr Burglary zone opens, whether the system is armed or disarmed, the control panel will immediately generate a burglary alarm.

4.3.7 24Hr Hold-up Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 7

When a 24Hr Hold-up zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Hold-up Alarm.

4.3.8 24Hr Gas Zones*

SECTIONS [0101] TO [0196]: FIRST DIGIT = 8

When a 24Hr Gas zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Gas Alarm.

4.3.9 24Hr Heat Zones**

SECTIONS [0101] TO [0196]: FIRST DIGIT = 9

When a 24Hr Heat zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Heat Alarm.

*** UL Note: UL Listed compatible devices shall be used for UL systems. For UL Listed systems, this type of zone shall be programmed as a pulsing Fire alarm.*

4.3.10 24Hr Water Zones*

SECTIONS [0101] TO [0196]: FIRST DIGIT = A

When a 24Hr Water zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Water Alarm.

4.3.11 24Hr Freeze Zones*

SECTIONS [0101] TO [0196]: FIRST DIGIT = B

When a 24Hr Freeze zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Freeze Alarm.

* UL Note: UL Listed compatible devices shall be used for UL systems. For UL Listed systems, this type of zone shall be programmed as a silent auxiliary alarm.

### 4.3.12 Delayed 24Hr Fire Zone *(Not to be used with UL Listed systems)*

SECTIONS [0101] TO [0196]: FIRST DIGIT = C

The Delayed 24Hr Fire Zone definition from Figure 4-3: on page 14 is commonly used in residential homes where a smoke detector often generates false alarms (i.e. cigarette smoke, burning bread, etc.). A zone programmed as Fire becomes normally open (will not function as normally closed) and requires an EOL resistor.

⚠️ ***The keypads must be assigned to the same partition as the Delayed 24Hr Fire zone for the buzzer to activate.***

**Figure 4-3: Delayed 24Hr Fire Zone**
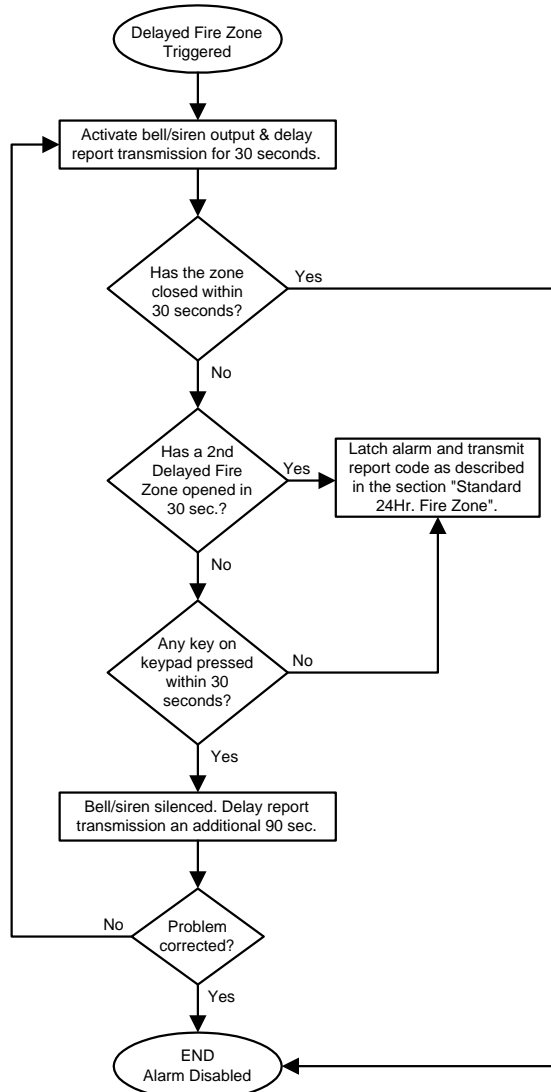
4.3.13 Standard 24Hr Fire Zone

SECTIONS [0101] TO [0196]: FIRST DIGIT = D

A zone programmed as Fire becomes normally open (will not function as normally closed) and requires an EOL resistor.

When a Standard 24Hr Fire Zone triggers, the control panel can:
• send a *Zone Alarm* report code (see section 8.2.1 on page 24).
• send a *Fire Loop Trouble Report* (see section 8.2.11 on page 25) if a tamper/wiring fault occurs on a Fire Zone. A "Zone Fault Trouble" will also appear in the keypad's Trouble Display.
• generate a Fire alarm, which is always audible, regardless of other settings. Fire alarms generate an intermittent signal (see Figure 4-4).

Figure 4-4: Bell/Siren Output During Fire Alarm
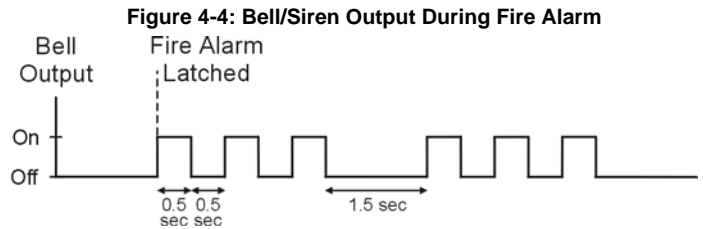
4.3.14 Stay Delay Zone

SECTIONS [0101] TO [0196]: FIRST DIGIT = E AND F

When a Stay Delay zone is armed using the Regular or Force arming methods, the control panel processes the zone as an Instant zone (see section 4.3.4). When a Stay Delay zone is armed using the Stay or Instant arming methods and the zone is triggered, the control panel will not generate an alarm until the programmed Stay Delay elapses. A zone defined as Stay Delay 1 follows the Entry Delay 1 Timer of its assigned partition. Likewise, a zone defined as Stay Delay 2 follows the Entry Delay 2 Timer of its assigned partition. To program the Entry Delay Timers, refer to *Entry Delays 1 and 2* on page 13.
For example, if zone 1 in Partition 5 is defined as Stay Delay 1, the timer will follow the amount programmed in [3511].

4.4 ZONE PARTITION ASSIGNMENT

SECTIONS [0101] TO [0196]: SECOND DIGIT = 1 TO 8

A control panel can be divided into eight completely independent systems (see section 11.9 on page 32). Assign each zone to one partition (see Figure 4-1 on page 12).

4.5 ZONE OPTIONS

The zone options from Figure 4-1 on page 12 are described below.

4.5.1 Auto Zone Shutdown

SECTIONS [0101] TO [0196]: OPTION [1]

(Default = 000) When option **[1]** is disabled, the control panel generates an alarm when an armed zone is breached even if the same zone opens repeatedly during the same alarm, which may cause several reportings and further activation of the bell output. When option **[1]** is enabled, the control panel will stop regenerating alarms on the zone during the same armed period once the Auto Zone Shutdown Limit is reached. The Auto Zone Shutdown Limit resets every time the system is armed. To program the Auto Zone Shutdown Limit, key in the desired 3-digit counter (000 to 255) into section corresponding to the desired partition (000 = disabled):

Partition 1: **[3114]**	Partition 5: **[3514]**
Partition 2: **[3214]**	Partition 6: **[3614]**
Partition 3: **[3314]**	Partition 7: **[3714]**
Partition 4: **[3414]**	Partition 8: **[3814]**

4.5.2 Bypass Zones

SECTIONS [0101] TO [0196]: OPTION [2]

Only zones with option **[2]** enabled can be Manually Bypassed (see section 15.7). Fire Zones cannot be bypassed. Default = enabled.

4.5.3 Stay Zones

SECTIONS [0101] TO [0196]: OPTION [3]

Only zones with option **[3]** enabled will be bypassed when the partition is Stay Armed (see section 15.2) or Instant Armed (see section 15.3). All other zones will remain activated. Fire Zones cannot be set as Stay Zones.

4.5.4 Force Zones *(Not to be used with UL Listed systems)*

SECTIONS [0101] TO [0196]: OPTION [4]

Only zones with option **[4]** enabled can be bypassed when the partition is Force armed (see section 15.4). Fire Zones cannot be Force Zones.

4.5.5 Alarm Types

SECTIONS [0101] TO [0196]: OPTIONS [5] & [6]

Option		Feature	Description
[5]	**[6]**		
OFF	**OFF**	Steady Alarm	sends the report code and activates the bell output
ON	**OFF**	Pulsed Alarm	sends the report code and pulses the bell output (see Figure 4-4 on page 14)
OFF	**ON**	Silent Alarm	sends the report code, but the bell output is not activated. Partition must be disarmed.
ON	**ON**	Report Only	sends the report code. Disarming is not required. Fire Zones cannot be *Report Only*.

4.5.6 Intellizone*

SECTIONS [0101] TO [0196]: OPTION [7]

(Default = 010) If an alarm condition occurs on a zone with option **[7]** enabled, the control panel triggers the Intellizone Delay and seeks confirmation of the alarm situation before generating an alarm. Fire Zones cannot be set as Intellizones. An alarm will only be generated if one of the following conditions occurs during the Intellizone Delay:

1) An alarm occurs on another zone defined as Intellizone.
2) The zone in alarm restores and reoccurs.
3) The zone stays in alarm for the entire Intellizone Delay.

Key in the desired 3-digit delay value (010 to 255 seconds) into the section corresponding to the desired partition (000 = 10 seconds):

Partition 1: **[3110]**	Partition 3: **[3310]**	Partition 5: **[3510]**	Partition 7: **[3710]**
Partition 2: **[3210]**	Partition 4: **[3410]**	Partition 6: **[3610]**	Partition 8: **[3810]**

* UL Note: For UL Listed systems, the detection pattern of both zones shall be installed so that each zone has the capability of protecting the area alone.

4.5.7 Delay Before Alarm Transmission

SECTIONS [0101] TO [0196]: OPTION [8]

(Default = 000) When an alarm condition occurs on a zone with option **[8]** enabled, the control panel activates the bell output, but will not report the alarm to the Monitoring Station until the end of the Alarm Transmission Delay. During this period, disarming the system cancels any report originating from this zone. To program the Alarm Transmission Delay, key in the desired value (000 to 255 seconds, 000 = instant) into section **[3055]**. This feature is commonly used with Entry Delay zones to reduce false alarms created by new users who may not disarm the system in time.

4.6 INPUT SPEED

(001 to 255 X 30msec, default: 600ms)

The Input Speed defines how quickly the control panel responds to an open zone detected on any hardwired input terminal (does not apply to addressable motion detectors and door contacts). All other zone definitions and options do not come into effect until the Input Speed elapses. The control panel will not display and/or respond to an open zone until the Input Speed elapses to prevent glitches from causing an alarm or unnecessary reporting.

For example, if an armed zone with an Input Speed of 600ms opens and closes in less than 600ms, the control panel will not respond (i.e. no reporting, no alarm and no display on the keypad).

Set the Input Speed (001 to 255 X 30ms, default = 600msec.):

Section	Input	Section	
[0961]	Input 01	**[0973]**	Input 13 (ATZ of Input 01)
[0962]	Input 02	**[0974]**	Input 14 (ATZ of Input 02)
[0963]	Input 03	**[0975]**	Input 15 (ATZ of Input 03)
[0964]	Input 04	**[0976]**	Input 16 (ATZ of Input 04)
[0965]	Input 05	**[0977]**	Input 17 (ATZ of Input 05)
[0966]	Input 06	**[0978]**	Input 18 (ATZ of Input 06)
[0967]	Input 07	**[0979]**	Input 19 (ATZ of Input 07)
[0968]	Input 08	**[0980]**	Input 20 (ATZ of Input 08)

Set the Input Speeds for the optional 4-Zone Hardwire Module, DGP2-ZX4:

Section	Input
[0969]	Input 09 (DGP2-ZX4 Input 01)
[0970]	Input 10 (DGP2-ZX4 Input 02)
[0971]	Input 11 (DGP2-ZX4 Input 03)
[0972]	Input 12 (DGP2-ZX4 Input 04)
[0981]	Input 21 (ATZ of DGP2-ZX4 Input 01)
[0982]	Input 22 (ATZ of DGP2-ZX4 Input 02)
[0983]	Input 23 (ATZ of DGP2-ZX4 Input 03)
[0984]	Input 24 (ATZ of DGP2-ZX4 Input 04)

4.7 EOL ON HARDWIRE ZONES

SECTION [3033]: OPTION [7]

(Default = disabled) If detection devices connected to hardwired input terminals use 1kΩ end of line resistors, enable option **[7]** in section **[3033]**. For details on using EOL resistors, refer to *Addressable Zone Connections* on page 7 and *Double Zone Connections* on page 8.

4.8 KEYPAD NUMBERING

SECTIONS [2801] TO [2832]

Keypad Numbering is only used to identify the keypad in the event buffer. When Keypad Numbering is not used, the event buffer will then display any events pertaining to any keypad as Keypad 00. When Keypad Numbering is used, each keypad is identified by a specific number. The keypad is assigned to a Keypad Number from 1 to 32 through the keypad's serial number in sections **[2801]** to **[2832]**. Enter the 8-digit serial keypad serial number in the desired section.

KEYSWITCH PROGRAMMING

The DigiplexNE control panel can support up to 32 keyswitch zones in addition to the 96 standard zones. A keyswitch allows a user to arm or disarm a system by pressing a key or by toggling a keyswitch. A keyswitch can also be used to generate a Utility Key event which can then be used to activate or deactivate PGM outputs connected to the DigiplexNE system. The keyswitches are connected to the hardwired input terminals of either the control panel, zone expansion modules or the keypad. For installation instructions, see section 2.9 on page 4. Keyswitches must be programmed as described in this section (see Figure 5-1). ***UL Note: Keyswitches are not to be used in UL Listed systems.***

Figure 5-1: Keyswitch Programming
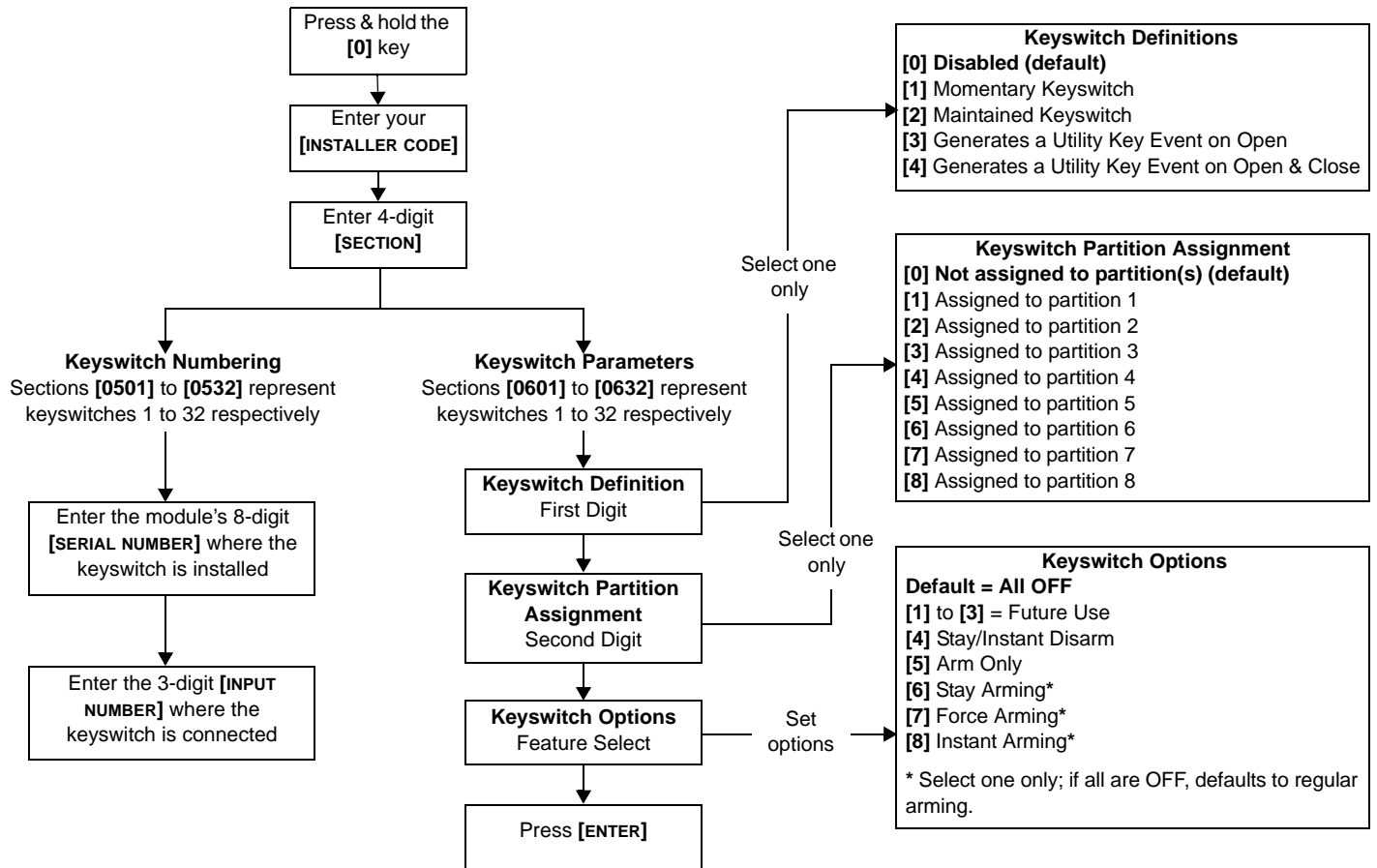
5.1 KEYSWITCH NUMBERING

SECTIONS [0501] TO [0532]
Keyswitch Numbering allows you to assign any hardwired input in the system to any of the 32 keyswitch zones in the control panel. It identifies where the keyswitch is connected and which keyswitch zone is assigned to the keyswitch (see Figure 5-2).

Figure 5-2: Example of Keyswitch Numbering
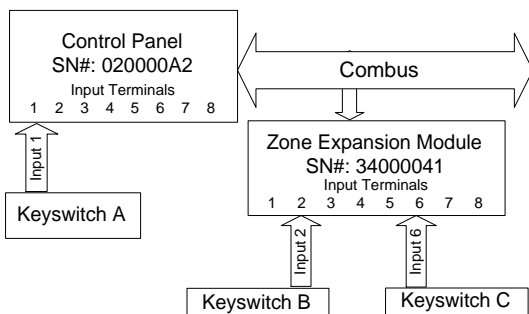
Keyswitch	Zone #	Section	Serial#	Input#
Keyswitch A:	1 =	[0501]	020000A2	001
Keyswitch B:	2 =	[0502]	34000041	002
Keyswitch C:	3 =	[0503]	34000041	006

5.2 KEYSWITCH DEFINITIONS

Keyswitch Definitions determine how the control panel reacts when a keyswitch is activated.

5.2.1 Keyswitch Disabled
SECTIONS [0601] TO [0632]: FIRST DIGIT = 0
Disables keyswitch input.

5.2.2 Momentary Keyswitch
SECTIONS [0601] TO [0632]: FIRST DIGIT = 1
To arm a partition using the Momentary Keyswitch, turn on the keyswitch for approximately three seconds then turn it off. Repeating this sequence will disarm the system. The selected Keyswitch Option (see section 5.4) determines the type of arming.

5.2.3 Maintained Keyswitch
SECTIONS [0601] TO [0632]: FIRST DIGIT = 2
To arm a partition using the Maintained Keyswitch, turn the switch from the ON to the OFF position. To disarm a partition set the keyswitch in the ON position. The selected Keyswitch Option (see section 5.4) determines the type of arming. If the keyswitch's Arm Only option is enabled, the control panel will not perform any action when the switch is in the on position.

5.2.4 Generates a Utility Key Event on Open

SECTIONS [0601] TO [0632]: FIRST DIGIT = 3

When option **[3]** is enabled, a Utility Key Event will be generated whenever the keyswitch input is opened (see Table 14 on page 51). This option can be used to activate or deactivate one or more of DigiplexNE's PGM outputs. When a keyswitch is defined with the Generate a Utility Key Event on Open option, the Keyswitch Partition Assignment and Keyswitch Options are disabled. To program a Keyswitch to generate a Utility Key Event:

1) Program the Activation Event of a PGM output with the *Utility Key Event* corresponding to the desired keyswitch (see *PGM Programming Table* in the Programming Guide: Event Group 048).
2) Enable option [3] in the section corresponding to the desired keyswitch.

5.2.5 Generates a Utility Key Event on Open and Close

SECTIONS [0601] TO [0632]: FIRST DIGIT = 4

When option **[4]** is enabled, a Utility Key Event will be generated whenever the keyswitch input is opened and closed. As a result, the Utility Key Events increase from 32 to 64 events when option **[4]** is enabled; one event for each state (open and closed). See Table 14 on page 51.

This option can be used to activate or deactivate one or more of DigiplexNE's PGM outputs. When a keyswitch is defined with the Generate a Utility Key Event on Open and Close option, the Keyswitch Partition Assignment and Keyswitch Options are disabled. To program a Keyswitch to generate a Utility Key Event:

1) Program the Activation Event of a PGM output with the *Utility Key Event* corresponding to the desired keyswitch (see *PGM Programming Table* in the Programming Guide: Event Group 048).
2) Enable option **[4]** in the section corresponding to the desired keyswitch.

5.3 KEYSWITCH PARTITION ASSIGNMENT

SECTIONS [0601] TO [0632]: SECOND DIGIT = 1 TO 8

The control panel provides the option of partitioning the security system into eight completely independent systems. Therefore, each keyswitch must be assigned to one partition as shown in Figure 5-1 on page 16. For details on Partitioning, see section 11.9 on page 32.

5.4 KEYSWITCH OPTIONS

Each keyswitch zone can be programmed with one or more of the options below as shown in Figure 5-1 on page 16.

5.4.1 Stay/Instant Disarm Option (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [4]

When option **[4]** is enabled, the keyswitch can only disarm assigned Stay or Instant Armed partitions. The Arm Only Option (see section 5.4.2) must be disabled for this feature to function. When option **[4]** is disabled, the keyswitch can disarm partitions armed using any arming method.

5.4.2 Arm Only (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [5]

When option **[5]** is enabled, the keyswitch can arm assigned partitions, but cannot disarm any partitions. The type of arming is determined by the other Keyswitch Options selected.

5.4.3 Regular Arming (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [6] TO [8]

When options **[6]** to **[8]** are disabled, the keyswitch arming option will default to Regular Arming (see section 15.1).

5.4.4 Stay Arming (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [6]

Activating the keyswitch will bypass any zones defined as Stay Zones (see section 4.5.3) in the selected partition. All other zones will remain activated. For more information on Stay Arming, refer to section 15.2.

5.4.5 Force Arming (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [7]

Activating the keyswitch will arm the selected partition bypassing any open zones defined as Force Zones (see section 4.5.4) at the time of arming. For more information on Force Arming, refer to section 15.4.

5.4.6 Instant Arming (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [8]

This option is identical to Stay Arming except that all armed zones will become Instant Zones (see section 4.3.4). For more information on Instant Arming, refer to section 15.3.

Only one of the arming options (Stay, Force, Instant and Regular) can be selected.

6.1 ARMING FOLLOWS PARTITION

(Default = disabled) A partition can be set to follow the arming and disarming status of one or more partitions. If a partition is set to follow more than one partition, the partition will arm when all the selected partitions are armed. However, the partition will disarm as soon as one of the selected partitions is disarmed.

For example, if options [2] and [3] are ON in section [3121], Partition 1 will automatically arm whenever partitions 2 and 3 are armed. Partition 1 will disarm when either partition 2 or partition 3 is disarmed.

Partition 1: [3121]		Partition 5: [3521]	
Partition 1 arms & disarms with:		Partition 5 arms & disarms with:	
Option [1] =	N/A	Option [1] =	Partition 1
Option [2] =	Partition 2	Option [2] =	Partition 2
Option [3] =	Partition 3	Option [3] =	Partition 3
Option [4] =	Partition 4	Option [4] =	Partition 4
Option [5] =	Partition 5	Option [5] =	N/A
Option [6] =	Partition 6	Option [6] =	Partition 6
Option [7] =	Partition 7	Option [7] =	Partition 7
Option [8] =	Partition 8	Option [8] =	Partition 8
Partition 2: [3221]		**Partition 6: [3621]**	
Partition 2 arms & disarms with:		Partition 6 arms & disarms with:	
Option [1] =	Partition 1	Option [1] =	Partition 1
Option [2] =	N/A	Option [2] =	Partition 2
Option [3] =	Partition 3	Option [3] =	Partition 3
Option [4] =	Partition 4	Option [4] =	Partition 4
Option [5] =	Partition 5	Option [5] =	Partition 5
Option [6] =	Partition 6	Option [6] =	N/A
Option [7] =	Partition 7	Option [7] =	Partition 7
Option [8] =	Partition 8	Option [8] =	Partition 8
Partition 3: [3321]		**Partition 7: [3721]**	
Partition 3 arms & disarms with:		Partition 7 arms & disarms with:	
Option [1] =	Partition 1	Option [1] =	Partition 1
Option [2] =	Partition 2	Option [2] =	Partition 2
Option [3] =	N/A	Option [3] =	Partition 3
Option [4] =	Partition 4	Option [4] =	Partition 4
Option [5] =	Partition 5	Option [5] =	Partition 5
Option [6] =	Partition 6	Option [6] =	Partition 6
Option [7] =	Partition 7	Option [7] =	N/A
Option [8] =	Partition 8	Option [8] =	Partition 8
Partition 4: [3421]		**Partition 8: [3821]**	
Partition 4 arms & disarms with:		Partition 8 arms & disarms with:	
Option [1] =	Partition 1	Option [1] =	Partition 1
Option [2] =	Partition 2	Option [2] =	Partition 2
Option [3] =	Partition 3	Option [3] =	Partition 3
Option [4] =	N/A	Option [4] =	Partition 4
Option [5] =	Partition 5	Option [5] =	Partition 5
Option [6] =	Partition 6	Option [6] =	Partition 6
Option [7] =	Partition 7	Option [7] =	Partition 7
Option [8] =	Partition 8	Option [8] =	N/A

6.2 RESTRICT ARMING ON SUPERVISION LOSS

SECTION [3034]: OPTION [4]

(Default = disabled) When option **[4]** is enabled, the control panel can restrict arming if it receives a supervision loss signal from the Omnia 433MHz Wireless System OMN-RCV3 (see section 7.3). Partitions will not arm until all supervision loss trouble conditions are corrected.

6.3 RESTRICT ARMING ON TAMPER

SECTION [3034]: OPTION [8]

(Default = disabled) When option **[8]** is enabled, the control panel prevents arming if it detects a tamper on a zone or module (see section 7.5). Partitions will not arm until the Installer Code is entered and tamper trouble conditions are corrected.

6.4 RESTRICT ARMING ON AC FAILURE

SECTION [3035]: OPTION [1]

(Default = disabled) When option **[1]** is enabled, the control panel can prevent arming if it detects a loss of AC power. Partitions will not arm until power is restored.

6.5 RESTRICT ARMING ON BATTERY FAILURE

SECTION [3035]: OPTION [2]

(Default = disabled) When option **[2]** is enabled, the control panel prevents arming if it detects a battery loss or if the battery voltage is less than 10.5V. The control panel will not arm a partition until all battery trouble conditions are corrected.

6.6 RESTRICT ARMING ON BELL OR AUXILIARY FAILURE

SECTION [3035]: OPTION [3]

(Default = disabled) When option **[3]** is enabled, the control panel can prevent arming if it detects that:
• the bell or siren is disconnected
• the Bell Output has exceeded its current limits
• the Auxiliary Outputs have exceeded their current limits
The control panel will not arm any partition until all bell or auxiliary trouble conditions are corrected.

6.7 RESTRICT ARMING ON TLM FAILURE

SECTION [3035]: OPTION [4]

(Default = disabled) When option **[4]** is enabled, the control panel can prevent arming if it is unable to access the telephone line. The control panel will not arm any partition until all TLM trouble conditions are corrected.

6.8 RESTRICT ARMING ON MODULE TROUBLES

SECTION [3035]: OPTION [5]

(Default = disabled) When option **[5]** is enabled, the control panel will monitor the same Restrict Arming options selected for the control panel (battery, tamper, supervision, AC, bell, auxiliary and/or TLM failures) for the modules connected to the combus. The control panel will prevent arming if the control panel detects the equivalent trouble condition occurring on a module.

For example, if options [1], [2] and [5] are ON in section [3035], the control panel prevents arming if it detects an AC or battery failure on the control panel or on a module connected to the combus.

6.9 TIMED AUTO-ARMING

(Default = disabled) When this option is enabled, the control panel arms the selected partition every day at the time set by the Auto-Arm Timer (see section 6.9.1). A 60-second Exit Delay triggers before the partition arms, but Auto-Arming can be cancelled by entering a valid access code. The *Auto-Arming Option* sets the arming method (see section 6.11). If zones are open when a partition is Auto-Armed, the control panel arms the partition and considers all open zones as temporarily bypassed (except 24hr. zones).

When the partition Auto-Arms, the control panel transmits the *Auto-Arming* report code programmed in section **[3910]**. Whether the partition was successfully armed or not, the control panel will always transmit the *Late to Close* report code programmed in section **[3912]**. Enable option **[1]** in the desired section:

Partition 1: **[3122]**	Partition 3: **[3322]**	Partition 5: **[3522]**	Partition 7: **[3722]**
Partition 2: **[3222]**	Partition 4: **[3422]**	Partition 6: **[3622]**	Partition 8: **[3822]**

6.9.1 Auto-Arm Timer

When Timed Auto-Arming is enabled (see section 6.9), the control panel will attempt to arm the system at the time set by the Auto-Arm Timer.
For example, to Auto-Arm partition 2 everyday at 6:15PM, enable option [1] in section [3222] (Timed Auto-Arming) and enter 18:15 in section [3201].
Enter the time when the partition should arm in the desired section:

Partition 1: **[3101]**	Partition 3: **[3301]**	Partition 5: **[3501]**	Partition 7: **[3701]**
Partition 2: **[3201]**	Partition 4: **[3401]**	Partition 6: **[3601]**	Partition 8: **[3801]**

6.10 NO MOVEMENT AUTO-ARMING

(Default = disabled) If no movement occurs in a partition for the period specified by the No Movement Timer (see section 6.10.1), the control panel will automatically arm that partition. The Auto-Arming Option determines the arming method (see section 6.11). The control panel will transmit the *No Movement* report code programmed in section **[3913]** upon arming. Whether the partition was successfully armed or not, the control panel will always transmit the *Late to Close* report code **[3912]**. Enable option **[2]** in the desired section:

Partition 1: **[3122]**	Partition 3: **[3322]**	Partition 5: **[3522]**	Partition 7: **[3722]**
Partition 2: **[3222]**	Partition 4: **[3422]**	Partition 6: **[3622]**	Partition 8: **[3822]**

6.10.1 No Movement Timer

(Default = 000) If *No Movement Auto-Arming* is enabled (see section 6.10), the control panel will attempt to arm the system if no movement has occurred for the period specified by the *No Movement Timer*. Select the section corresponding to the desired partition and program the time without movement necessary before the control panel will arm and/or send the *No Movement* report code. If No Movement Auto-Arming is disabled, the control panel can still send the *No Movement* report code.
For example, to arm partition 1 when no movement occurs for 4 hours, enable option [2] in section [3122] (No Movement Auto-Arm for partition 1) and enter 016 (16 x 15min. = 240min. = 4 hours) in section [3107].
Enter the time period (001 to 255 x 15 minutes, 000 = disabled) when the partition should arm in the desired section:

Partition 1: **[3107]**	Partition 3: **[3307]**	Partition 5: **[3507]**	Partition 7: **[3707]**
Partition 2: **[3207]**	Partition 4: **[3407]**	Partition 6: **[3607]**	Partition 8: **[3807]**

6.11 AUTO-ARMING OPTIONS

(Default = disabled) When using the Auto-Arming Features (see section 6.9 and section 6.10), the control panel can Force Arm (see section 15.4) or Stay Arm (see section 15.2) the partitions. To Auto-Arm using Stay Arming, enable option **[3]** in the desired section:

Partition 1: **[3122]**	Partition 3: **[3322]**	Partition 5: **[3522]**	Partition 7: **[3722]**
Partition 2: **[3222]**	Partition 4: **[3422]**	Partition 6: **[3622]**	Partition 8: **[3822]**

6.12 SWITCH TO STAY ARMING

If no Entry Delay zones are opened and closed during the Exit Delay after Regular Arming a partition, the control panel can switch from Regular Arming to Stay Arming. Enable the option in the desired section:

Partition 1: **[3121]** Option **[1]**	Partition 5: **[3521]** Option **[5]**
Partition 2: **[3221]** Option **[2]**	Partition 6: **[3621]** Option **[6]**
Partition 3: **[3321]** Option **[3]**	Partition 7: **[3721]** Option **[7]**
Partition 4: **[3421]** Option **[4]**	Partition 8: **[3821]** Option **[8]**

6.13 ALWAYS FORCE ARM WHEN REGULAR ARMING

(Default = Disabled) When option **[8]** is enabled for a particular partition, the system will Force Arm that partition whenever Regular or Force arming is activated. Stay and Instant arming are not affected by this feature.

Partition 1: **[3123]** Option **[8]**	Partition 5: **[3523]** Option **[8]**
Partition 2: **[3223]** Option **[8]**	Partition 6: **[3623]** Option **[8]**
Partition 3: **[3323]** Option **[8]**	Partition 7: **[3723]** Option **[8]**
Partition 4: **[3423]** Option **[8]**	Partition 8: **[3823]** Option **[8]**

6.14 FOLLOW ZONE SWITCHES TO ENTRY DELAY 2

(Default = enabled) When option **[8]** is enabled and an Entry Delay zone is bypassed, an armed Follow Zone (see section 4.3.3) that opens without an Entry Delay being triggered will switch to the partition's Entry Delay 2.
For example, zone 1 is an Entry Delay and zone 2 is a Follow zone protecting the area where the keypad is installed. The partition is armed, but zone 1 is bypassed. When option [8] is enabled, zone 2 will trigger Entry Delay 2 instead of an alarm when the user approaches the keypad to disarm the partition.
Enable option **[8]** in the desired section:

Partition 1: **[3122]**	Partition 3: **[3322]**	Partition 5: **[3522]**	Partition 7: **[3722]**
Partition 2: **[3222]**	Partition 4: **[3422]**	Partition 6: **[3622]**	Partition 8: **[3822]**

6.15 ONE-TOUCH FEATURES

(Default = disabled) The One-touch Features can arm or disarm a partition, access Bypass Programming, or display the Event Buffer by pressing and holding a specific key for 2 seconds instead of entering an access code. If the keypad is assigned to more than one partition, the feature must be enabled in the corresponding partitions. Select the section corresponding to the desired partition and enable or disable the desired options:

Partition 1: **[3125]**	Partition 3: **[3325]**	Partition 5: **[3525]**	Partition 7: **[3725]**
Partition 2: **[3225]**	Partition 4: **[3425]**	Partition 6: **[3625]**	Partition 8: **[3825]**

Option	One-Touch Feature	One-Touch Key
[1]	Regular Arming (see section 15.1)	**[ARM]**
[2]	Stay Arming (see section 15.2)	**[STAY]**
[3]	Instant Arming (see section 15.3)	**[5]**
[4]	Force Arming (see section 15.4)	**[FORCE]**
[5]	Stay/Instant Disarming (see section 15.6)	**[DISARM]**
[6]	Bypass Programming (see section 15.7)	**[BYP]**
[7]	Event Record Display (see section 15.10)	**[7]**

6.16 EXIT DELAY

(Default = 060) The Exit Delay determines the amount of time a user has to leave the protected area before the control panel arms the partition. The Exit Delay applies to all zones in the partition, except 24Hr. Zones. Program the Exit Delay from 001 to 255 seconds:

Partition 1: **[3108]**	Partition 3: **[3308]**	Partition 5: **[3508]**	Partition 7: **[3708]**
Partition 2: **[3208]**	Partition 4: **[3408]**	Partition 6: **[3608]**	Partition 8: **[3808]**

6.16.1 Exit Delay Termination

(Default = enabled) The control panel can reduce the Exit Delay to 7 seconds when an Entry Delay zone (see section 4.3.2) is opened and closed during the Exit Delay.
For example, 15 sec. into a 45-sec. Exit Delay, an Entry Delay zone opens and closes. The remaining 30 sec. is reduced to 7 sec.

Figure 6-1: Example of Exit Delay Termination
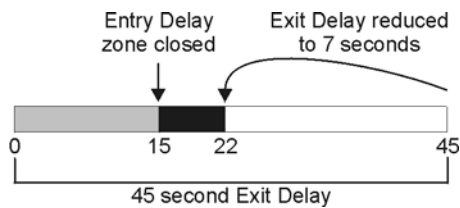
Enable option **[4]** in the desired section:

Partition 1: **[3122]**	Partition 3: **[3322]**	Partition 5: **[3522]**	Partition 7: [**3722**]
Partition 2: **[3222]**	Partition 4: **[3422]**	Partition 6: **[3622]**	Partition 8: **[3822]**

6.16.2 No Exit Delay on Remote Arm

(Default = enabled) When a user arms by using a remote control from the Omnia Wireless System (OMN-RCV3), the control panel will cancel the Exit Delay and immediately arm the partition. Enable option **[8]** in the desired section:

Partition 1: **[3125]**	Partition 3: **[3325]**	Partition 5: **[3525]**	Partition 7: **[3725]**
Partition 2: **[3225]**	Partition 4: **[3425]**	Partition 6: **[3625]**	Partition 8: **[3825]**

6.17 KEYPAD LOCK-OUT FEATURE

(Default = 000) If a consecutive number of invalid codes are entered into a keypad, the control panel can be set to lockout access from all the keypads in the partition for a specified period. Program the number of consecutive invalid codes from 001 to 255 (000 = disabled) into the desired section:

Partition 1: **[3105]**	Partition 3: **[3305]**	Partition 5: **[3505]**	Partition 7: **[3705]**
Partition 2: **[3205]**	Partition 4: **[3405]**	Partition 6: **[3605]**	Partition 8: **[3805]**

(Default = 000) Program the duration of the keypad lockout from 001 to 255 minutes into the desired section. Programming 000 into these sections will not lockout the keypad, the control panel will transmit the *Keypad Lockout* report code programmed in section **[3937]**.

Partition 1: **[3106]**	Partition 3: **[3306]**	Partition 5: **[3506]**	Partition 7: **[3706]**
Partition 2: **[3206]**	Partition 4: **[3406]**	Partition 6: **[3606]**	Partition 8: **[3806]**

6.18 BELL SQUAWK

The control panel can activate the bell output briefly causing the bell or siren to squawk to alert users that a partition is being armed, disarmed or that an Entry or Exit Delay was triggered. Enable or disable the desired option (off = disabled):

Partition 1: **[3124]**	Partition 3: **[3324]**	Partition 5: **[3524]**	Partition 7: **[3724]**
Partition 2: **[3224]**	Partition 4: **[3424]**	Partition 6: **[3624]**	Partition 8: **[3824]**

Option	Bell Squawk on:	Description
[1]	Disarming	Emits 2 squawks upon disarming (default = disabled).
[2]	Arming	Emits 1 squawk upon arming (default = disabled).
[3]	Auto-Arming	Emits 1 squawk every second for 60 seconds before Auto-Arming a partition. Emits a series of 3 squawks every second for 10 seconds before arming (default = disabled).
[4]	Exit Delay	Emits 1 squawk every second during the Exit Delay. Emits a series of 3 squawks every second during the final 10 seconds of the Exit Delay (default = disabled).
[5]	Entry Delay	Emits 1 squawk every second during the Entry Delay (default = disabled).

[6]	Remote Arming/ Disarming	Emits 1 squawk upon arming and 2 squawks upon disarming with a remote control (using the Omnia Wireless System, OMN-RCV3 (default = enabled) .

6.19 RING-BACK

After disarming the system, the control panel can warn the user that there was an alarm and that it may be dangerous to enter by having the keypad beep 10 times and/or by squawking the bell 10 times. The user should leave immediately and contact the Monitoring Station from a secure location. Select the section that corresponds to the desired partition and enable or disable the desired option (off = disabled):

Partition 1: **[3124]**	Partition 3: **[3324]**	Partition 5: **[3524]**	Partition 7: **[3724]**
Partition 2: **[3224]**	Partition 4: **[3424]**	Partition 6: **[3624]**	Partition 8: **[3824]**

Option	Bell Squawk on:	Description
[7]	Bell Ring-back	Bell or siren emits 10 squawks (default = disabled)
[8]	Keypad Ring-back	Keypad emits 10 beeps (default = enabled)

6.20 MAXIMUM BYPASS ENTRIES

(Default = 000) The Maximum Bypass Entries feature limits the number of zones that can be bypassed in each partition.
For example, program section [3115] with 010. When in Bypass Programming (see section 15.7), the control panel will not let the user bypass more than 10 zones in partition 1.
Enter any value between 001 and 096 (000 = no limit).

Partition 1: **[3115]**	Partition 3: **[3315]**	Partition 5: **[3515]**	Partition 7: **[3715]**
Partition 2: **[3215]**	Partition 4: **[3415]**	Partition 6: **[3615]**	Partition 8: **[3815]**

6.21 DISPLAY "BYPASS" IF ARMED

SECTION [3033]: OPTION [5]
(Default = enabled) When option **[5]** is enabled, the keypads will not display that zones have been bypassed while the system is armed.

7.1 BELL/ALARM OUTPUT

(Default = only option [1] enabled) When an alarm condition is detected in a partition, the control panel can toggle the on-board BELL output enabling any bells or sirens connected to it. In section **[3032]** enable the option to enable the bell output in the desired partition (off = disabled):

Partition 1: Option **[1]**	Partition 5: Option **[5]**
Partition 2: Option **[2]**	Partition 6: Option **[6]**
Partition 3: Option **[3]**	Partition 7: Option **[7]**
Partition 4: Option **[4]**	Partition 8: Option **[8]**

7.2 BELL CUT-OFF TIMER

(Default = 004) After an audible alarm, the bell or siren will stop once the partition is disarmed or when the Bell Cut-Off Timer has elapsed. Enter any value between 001 and 255 minutes:

Partition 1: **[3113]**	Partition 3: **[3313]**	Partition 5: **[3513]**	Partition 7: **[3713]**
Partition 2: **[3213]**	Partition 4: **[3413]**	Partition 6: **[3613]**	Partition 8: **[3813]**

7.2.1 No Bell Cut-Off on Fire Alarm

SECTION [3030]: OPTION [2]
(Default = disabled) The control panel can disable the Bell Cut-Off Timers when alarms are generated from zones defined as Standard or Delayed Fire Zones (see section 4.3). The BELL output will remain enabled until a user disarms the partition in alarm.

7.2.2 Recycle Alarm Rate

(Default = 000) The control panel re-verifies the zone status during an alarm at a programmed rate once the Bell Cut-Off Timer and the Recycle Delay elapse. If open zones remain, the control panel will regenerate the alarm. Enter the number of times from 001 to 255 (000 = no limit) in one armed period that the control panel will re-verify the zone status:

Partition 1: **[3117]**	Partition 3: **[3317]**	Partition 5: **[3517]**	Partition 7: **[3717]**
Partition 2: **[3217]**	Partition 4: **[3417]**	Partition 6: **[3617]**	Partition 8: **[3817]**

7.2.3 Recycle Delay

(Default = 000) The Recycle Delay is the amount of time the control panel will wait after the Bell Cut-off occurs before re-verifying the zone status. Program the Recycle Delay from 001 to 255 minutes (000 = disabled):

Partition 1: **[3116]**	Partition 3: **[3316]**	Partition 5: **[3516]**	Partition 7: **[3716]**
Partition 2: **[3216]**	Partition 4: **[3416]**	Partition 6: **[3616]**	Partition 8: **[3816]**

7.3 WIRELESS TRANSMITTER SUPERVISION OPTIONS

SECTION [3034]: OPTIONS [1] AND [2]
When the control panel detects a Supervision Loss (wireless receiver no longer receiving signals from a wireless transmitter), the control panel can generate an alarm and/or trouble, as shown in the table below, unless the Wireless Transmitter Supervision Option is disabled.

The Supervision feature must be enabled in the Omnia Wireless System (OMN-RCV3) for this feature to function.

Option		Description
[1]	**[2]**	
OFF	OFF	**Disabled (Default):** Displays zone open on the keypads, but will not generate an alarm or trouble. *Not permitted on UL systems.*
OFF	ON	**Generates Trouble Only (when armed or disarmed):** The control panel displays *Zone Fault* in the Trouble Display and transmits the defined report code (see section 8.2).
ON	OFF	**When disarmed: Generates Trouble Only** The control panel displays *Zone Fault* in the Trouble Display and transmits the defined report code (see section 8.2). **When armed: Follows Zone Alarm Type** The control panel follows the zone's alarm type (see section 4.5.5 on page 15).
ON	ON	**When disarmed: Generates Audible Alarm** The control panel displays *Zone Fault* in the Trouble Display, transmits the defined report code (see section 8.2), and generates an audible alarm. **When armed: Follows Zone Alarm Type** The control panel follows the zone's alarm type (see section 4.5.5 on page 15).

7.3.1 Supervision Bypass Options

SECTION [3034]: OPTION [3]
(Default = disabled) With option **[3]** enabled in section **[3034]**, the Wireless Transmitter Supervision Options will follow the zone's bypass definition. This means that the control panel will not perform any action if a supervision loss occurs on a bypassed zone. With option **[3]** disabled, the control panel will ignore the bypass definition and will follow the option set in section 7.3 if a supervision loss occurs on a bypassed zone.

7.4 POLICE CODE TIMER

(Default = 000) If an alarm condition occurs on a zone, the control panel generates an alarm and triggers the Police Code Timer. The Police Code Timer requires confirmation of the alarm situation within the delay before sending the Police Code programmed in **[3934]**. The Police Code will only be sent if one of the following conditions occurs during the delay:
1) An alarm occurs on another zone.
2) The zone in alarm restores and reoccurs.
Key in the desired 3-digit delay value (001 to 255 minutes, 000 = disabled) into the section corresponding to the desired partition:

Partition 1: **[3118]**	Partition 3: **[3318]**	Partition 5: **[3518]**	Partition 7: **[3718]**
Partition 2: **[3218]**	Partition 4: **[3418]**	Partition 6: **[3618]**	Partition 8: **[3818]**

7.5 TAMPER RECOGNITION OPTIONS

SECTION [3034]: OPTIONS [5] AND [6]
When the control panel detects a tamper or wire fault on a zone or on an expansion module, the control panel can generate an alarm and/or trouble, as shown in the table below, unless the Tamper Recognition Option is disabled.

| Option		Description
[5]	**[6]**	
OFF	OFF	**Disabled (Default):** Displays zone open on the keypads, but will not generate an alarm or trouble. *Not permitted on UL systems.*
OFF	ON	**Generates Trouble Only (when armed or disarmed):** The control panel displays *Zone Fault* in the Trouble Display and transmits the defined report code (see section 8.2).
ON	OFF	**When disarmed: Generates Trouble Only** The control panel displays *Zone Fault* in the Trouble Display and transmits the defined report code (see section 8.2). **When armed: Follows Zone Alarm Type** The control panel follows the zone's alarm type (see section 4.5.5 on page 15).
ON	ON	**When disarmed: Generates Audible Alarm** The control panel displays *Zone Fault* in the Trouble Display, transmits the defined report code (see section 8.2), and generates an audible alarm. **When armed: Follows Zone Alarm Type** The control panel follows the zone's alarm type (see section 4.5.5 on page 15).

7.5.1 Tamper Bypass Options

SECTION [3034]: OPTION [7]

(Default = enabled) With option **[7]** enabled in section **[3034]**, the control panel will ignore the zone's bypass definition and will follow the option set in section 7.5 if a tamper or wire fault occurs on a bypassed zone. With option **[7]** disabled, Tamper Recognition follows the zone's bypass definition. This means that the control panel will not perform any action if a tamper or wire fault occurs on a bypassed zone.

7.6 KEYPAD PANIC OPTIONS

(Default = disabled) The control panel can generate an alarm (audible, fire or report only) by pressing the keypad Panic key(s). For LCD keypads, two keys are pressed and held simultaneously for 2 seconds. For Grafica keypads, the appropriate Panic key is pressed and held for 2 seconds. Refer to the table below for the keypad Panic keys. In the section that corresponds to the desired partition, enable or disable options **[1]** through **[6]** as desired:

Partition 1: **[3123]**	Partition 3: **[3323]**	Partition 5: **[3523]**	Partition 7: **[3723]**
Partition 2: **[3223]**	Partition 4: **[3423]**	Partition 6: **[3623]**	Partition 8: **[3823]**

Option	Feature	Press and Hold:
[1]	Panic 1*	**LCD keypads:** Keys **[1]** and **[3]** simultaneously **Grafica keypads:** The ⬭ key
[2]	Panic 2*	**LCD keypads:** Keys **[4]** and **[6]** simultaneously **Grafica keypads:** The ⚠ key
[3]	Panic 3	**LCD keypads:** Keys **[7]** and **[9]** simultaneously **Grafica keypads:** The 🔥 key

Option	Alarm Type	
[4]	Panic 1:*	ON = Audible OFF = Report Only
[5]	Panic 2:*	ON = Audible OFF = Report Only
[6]	Panic 3:	ON = Fire OFF = Report Only

REPORT ONLY

The keypad emits a single Confirmation Beep and transmits the appropriate report code (see section 8.2.10).

AUDIBLE ALARM

The control panel activates the BELL output until a user cancels the alarm with a valid User Access Code or when the Bell Cut-Off Timer elapses (see section 7.2).
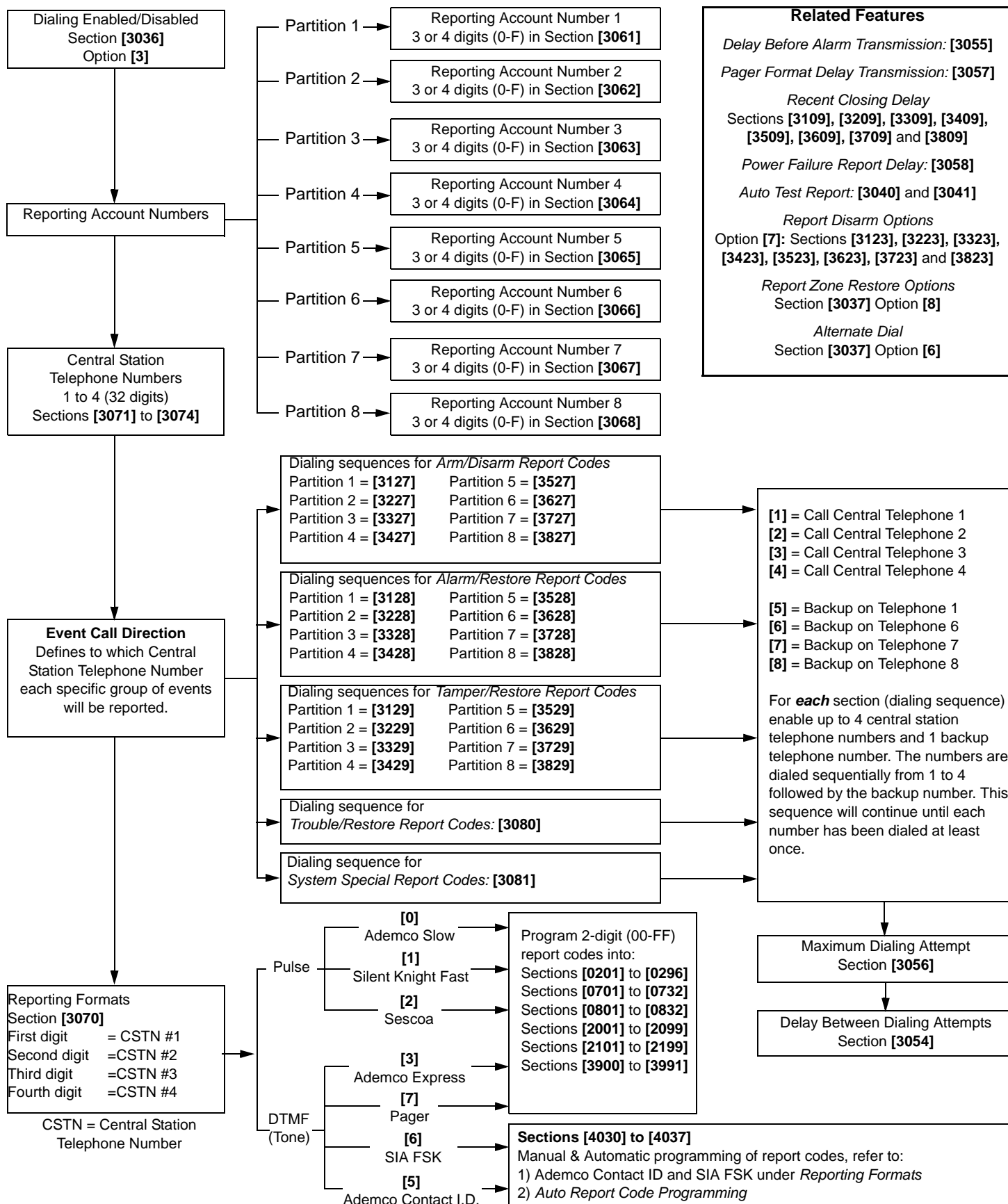
FIRE ALARM

Same as audible operation, except that the bell/siren output will be pulsed as shown in Figure 4-4 on page 14.

*** UL Note:** *For UL Listed systems, all emergency non-medical and auxiliary panic alarms shall be report only.*

EVENT REPORTING

Figure 8-1: Event Reporting

Dialing Enabled/Disabled
Section **[3036]**
Option **[3]**

↓

Reporting Account Numbers

Partition	Reporting Account Number	Section
Partition 1 →	Reporting Account Number 1, 3 or 4 digits (0-F) in	Section **[3061]**
Partition 2 →	Reporting Account Number 2, 3 or 4 digits (0-F) in	Section **[3062]**
Partition 3 →	Reporting Account Number 3, 3 or 4 digits (0-F) in	Section **[3063]**
Partition 4 →	Reporting Account Number 4, 3 or 4 digits (0-F) in	Section **[3064]**
Partition 5 →	Reporting Account Number 5, 3 or 4 digits (0-F) in	Section **[3065]**
Partition 6 →	Reporting Account Number 6, 3 or 4 digits (0-F) in	Section **[3066]**
Partition 7 →	Reporting Account Number 7, 3 or 4 digits (0-F) in	Section **[3067]**
Partition 8 →	Reporting Account Number 8, 3 or 4 digits (0-F) in	Section **[3068]**

Central Station
Telephone Numbers
1 to 4 (32 digits)
Sections **[3071]** to **[3074]**

Related Features

Delay Before Alarm Transmission: **[3055]**

Pager Format Delay Transmission: **[3057]**

Recent Closing Delay
Sections **[3109]**, **[3209]**, **[3309]**, **[3409]**, **[3509]**, **[3609]**, **[3709]** and **[3809]**

Power Failure Report Delay: **[3058]**

Auto Test Report: **[3040]** and **[3041]**

Report Disarm Options
Option **[7]**: Sections **[3123]**, **[3223]**, **[3323]**, **[3423]**, **[3523]**, **[3623]**, **[3723]** and **[3823]**

Report Zone Restore Options
Section **[3037]** Option **[8]**

Alternate Dial
Section **[3037]** Option **[6]**

Event Call Direction
Defines to which Central Station Telephone Number each specific group of events will be reported.

Dialing sequences for *Arm/Disarm Report Codes*
Partition 1 = **[3127]**	Partition 5 = **[3527]**
Partition 2 = **[3227]**	Partition 6 = **[3627]**
Partition 3 = **[3327]**	Partition 7 = **[3727]**
Partition 4 = **[3427]**	Partition 8 = **[3827]**

Dialing sequences for *Alarm/Restore Report Codes*
Partition 1 = **[3128]**	Partition 5 = **[3528]**
Partition 2 = **[3228]**	Partition 6 = **[3628]**
Partition 3 = **[3328]**	Partition 7 = **[3728]**
Partition 4 = **[3428]**	Partition 8 = **[3828]**

Dialing sequences for *Tamper/Restore Report Codes*
Partition 1 = **[3129]**	Partition 5 = **[3529]**
Partition 2 = **[3229]**	Partition 6 = **[3629]**
Partition 3 = **[3329]**	Partition 7 = **[3729]**
Partition 4 = **[3429]**	Partition 8 = **[3829]**

Dialing sequence for
Trouble/Restore Report Codes: **[3080]**

Dialing sequence for
System Special Report Codes: **[3081]**

[1] = Call Central Telephone 1
[2] = Call Central Telephone 2
[3] = Call Central Telephone 3
[4] = Call Central Telephone 4

[5] = Backup on Telephone 1
[6] = Backup on Telephone 6
[7] = Backup on Telephone 7
[8] = Backup on Telephone 8

For *each* section (dialing sequence) enable up to 4 central station telephone numbers and 1 backup telephone number. The numbers are dialed sequentially from 1 to 4 followed by the backup number. This sequence will continue until each number has been dialed at least once.

Maximum Dialing Attempt
Section **[3056]**

↓

Delay Between Dialing Attempts
Section **[3054]**

Reporting Formats
Section **[3070]**
First digit	= CSTN #1
Second digit	= CSTN #2
Third digit	= CSTN #3
Fourth digit	= CSTN #4

CSTN = Central Station
Telephone Number

Pulse
- **[0]** Ademco Slow
- **[1]** Silent Knight Fast
- **[2]** Sescoa

DTMF (Tone)
- **[3]** Ademco Express
- **[7]** Pager
- **[6]** SIA FSK
- **[5]** Ademco Contact I.D.

Program 2-digit (00-FF) report codes into:
Sections **[0201]** to **[0296]**
Sections **[0701]** to **[0732]**
Sections **[0801]** to **[0832]**
Sections **[2001]** to **[2099]**
Sections **[2101]** to **[2199]**
Sections **[3900]** to **[3991]**

Sections [4030] to [4037]
Manual & Automatic programming of report codes, refer to:
1) Ademco Contact ID and SIA FSK under *Reporting Formats*
2) *Auto Report Code Programming*

8.1 REPORTING ENABLED

SECTION [3036]: OPTION [3]

(Default = disabled) With option **[3]** ON in section **[3036]**, Event Reporting is enabled. When an event (e.g. zone in alarm) occurs in the system, the control panel verifies if a report code was programmed in the section corresponding to the event. If a report code is programmed, the control panel dials the Monitoring Station telephone number defined by the Event Call Direction feature. When the Monitoring Station answers, the control panel transmits the system account code, followed by the programmed report code.

8.2 REPORT CODES

A report code is a 2-digit or 1-digit hexadecimal value, consisting of digits from 0 to F. For a comprehensive list of the events and their relevant sections, please refer to the *DigiplexNE Programming Guide*. Only the Ademco Slow, Silent Knight, Sescoa and Pager Formats support 1-digit report codes.

When a specific event occurs, the control panel will send the programmed report code to the Monitoring Station. The method of report code transmission is defined by the following two items: **Reporting Formats** (see section 8.7) and **Event Call Direction** (see section 8.8). These two items define how and where the report codes are transmitted. If you are using the Ademco CID or SIA formats, an Auto Report Code Programming feature is available (see section 8.15). The following sub-sections provide a brief description of the events that the control panel can report:

8.2.1 Zone Alarm and Alarm Restore Report Codes

SECTIONS [0201] TO [0296]: FIRST AND SECOND BRACKETS
A report code can be programmed for each of the 96 available zones. Each section from **[0201]** to **[0296]** corresponds to a zone from 01 to 96. The first set of 2 digits in the sections refer to the Alarm Report Codes that can be sent to the Monitoring Station to identify which zones generated an alarm. The second set of 2 digits in the sections refer to the Alarm Restore Report Codes that can be sent to the Monitoring Station when a zone closes or once the bell has cut-off after generating an alarm (see section 7.2). Also, refer to Zone Restore Report Options in section 8.14.

8.2.2 Tamper and Tamper Restore Report Codes

SECTIONS [0201] TO [0296]: THIRD AND FOURTH BRACKETS
A report code can be programmed for each of the 96 available zones. Each section from **[0201]** to **[0296]** corresponds to a zone from 01 to 96. The third set of 2 digits refer to the Tamper Report Codes that can be sent to the Monitoring Station to identify which zone experienced a tamper or wire fault. If the Tamper Recognition Options (see section 7.5) are disabled, the control panel will not report the occurrence of any tampers or wire faults. The fourth set of 2 digits refer to the Tamper Restore Report Codes that can be sent to the Monitoring Station to identify which zone was restored.

8.2.3 Keyswitch Arming

SECTIONS [0701] TO [0732]
A report code can be programmed for each of the 32 keyswitch zones. Each section from **[0701]** to **[0732]** corresponds to a keyswitch from 1 to 32. When using a keyswitch to arm a partition, the control panel can send the report code to the Monitoring Station identifying which keyswitch was used. The control panel will not send report codes for keyswitches that are defined with the PGM Activation definition.

8.2.4 Keyswitch Disarming

SECTIONS [0801] TO [0832]
A report code can be programmed for each of the 32 keyswitch zones. Each section from **[0801]** to **[0832]** corresponds to a keyswitch from 1 to 32. When a keyswitch is used to disarm a partition, the control panel can send the report code to the Monitoring Station identifying which keyswitch was used. The control panel can transmit the report codes every time a partition is disarmed or only when it is disarmed following an alarm. Also, refer to Disarm Reporting Options in section 8.13. The control panel will not send report codes for keyswitches that are defined with the PGM Activation definition.

8.2.5 Access Codes Arming

SECTIONS [2001] TO [2099]
A report code can be programmed individually for each User Access Code from 01 to 98 in sections **[2001]** to **[2098]**. User Access Codes from 99 to 999 use a common report code in section **[2099]**. When an access code is used to arm a partition, the control panel can send the report code to the Monitoring Station identifying which access code was used.

8.2.6 Access Codes Disarming

SECTIONS [2101] TO [2199]
A report code can be programmed individually for each User Access Code from 01 to 98 in sections **[2101]** to **[2198]**. User Access Codes from 99 to 999 use a common report code programmed in section **[2199]**. When an access code is used to disarm a partition, the control panel can send the report code to the Monitoring Station identifying which access code was used. The report code can be transmitted when a partition is disarmed or only when disarmed following an alarm. Also, see section 8.13.

8.2.7 Special System Reporting Codes

When the system generates one of the following events, the control panel can send the report code to the Monitoring Station identifying the event:

Section	Event	Description
[3900]	Cold Start	control panel re-starts after complete shutdown (total power loss)
[3901]	Warm Start	control panel resets due to sudden problem other than power loss
[3902]	Test Report	report generated automatically (see section 8.12)
[3903] to [3904]		Future Use
[3905]	WinLoad Log Off	control panel ends communication with WinLoad
[3906]	Installer In	installer enters programming mode
[3907]	Installer Out	installer exits programming mode
[3908] to [3909]		Future Use

8.2.8 Special Arming Report Codes

When the partition arms using a special arming feature, the control panel can send the report code identifying how the system was armed.

Section	Event	Description
[3910]	Auto-Arming	when Auto-Arming (see section 6.9)
[3911]	PC Arming	system armed using WinLoad or NEware software
[3912]	Late to Close	when Auto-Arming (see section 6.9)
[3913]	No Movement	when No Movement Auto-Arming (see section 6.10)
[3914]	Partial Arming	when partitions are Stay, Instant or Force Armed or armed with bypassed zones
[3915]	Quick Arming	partitions armed with a One-Touch Arming feature (see section 6.15)
[3916]	Early to Close	partition armed before Arming Report Schedule (see section 8.3.2)
[3917]	Late to Close	partition armed after Arming Report Schedule (see section 8.3.2)
[3918]	Remote Arm	partition armed with the InTouch Voice-Assisted Arm/Disarm Module (APR3-ADM2)
[3919]	Closing Delinquency	Partition hasn't been armed before the programmed Closing Delinquency Timer elapsed (see section 8.16).

8.2.9 Special Disarming Report Codes

When using one of the special disarming features listed below, the control panel can send the report code to the Monitoring Station identifying how the system was disarmed. The control panel can transmit the report codes every time a partition is disarmed or only when it is disarmed following an alarm. Also, refer to Disarm Reporting Options in section 8.13.

Section	Event	Description
[3920]	Cancel Auto-Arm	partition disarms during the Auto-Arm's 60-sec. delay (see section 6.9)
[3921]	Quick Disarm	partition disarms using One-Touch Disarming feature (see section 6.15)
[3922]	PC Disarm	system disarmed using WinLoad or NEware software
[3923]	PC Disarm after Alarm	system disarmed using WinLoad or NEware software after an alarm occurs
[3924]	Cancel Alarm	indicates that an alarm was cancelled even though the system was not armed when the alarm occurred.
[3925]	Future Use	Future Use
[3926]	Early to Open	partition disarmed before Disarming Schedule (see section 8.3.2)
[3927]	Late to Open	partition disarmed after Disarming Schedule (see section 8.3.2)
[3928]	Remote Disarm	partition disarmed with InTouch Voice-Assisted Arm/Disarm Module (APR3-ADM2)

8.2.10 Special Alarm Report Codes

When an alarm is generated, the control panel can send the report code to the Monitoring Station identifying the type of alarm.

Section	Event	Description
[3930]	Emergency Panic (non-medical)	the panic keys [1] and [3] were pressed (see section 7.6)
[3931]	Auxiliary Panic	the panic keys [4] and [6] were pressed (see section 7.6)
[3932]	Fire Panic	the panic keys [7] and [9] were pressed (see section 7.6)
[3933]	Recent Closing	an alarm is generated within the *Recent Close Delay* (see section 8.10)
[3934]	Police Code	Confirmation of an alarm condition occurred during the Police Code Timer's delay (see section 7.4).
[3935]	Auto Zone Shutdown	the control panel stops regenerating alarms on a zone during the same armed period (see section 4.5.1)
[3936]	Duress	a Duress enabled access code is keyed in (refer to the Digiplex/DigiplexNE LCD Keypad Reference & Installation Manual)
[3937]	Keypad Lockout	too many invalid codes entered (see section 6.17)

8.2.11 System Trouble Codes

When a trouble is detected, the control panel can send the report code to the Monitoring Station identifying the type of trouble.

Section	Event	Description
[3940]	TLM1 Failure	TLM failure on main telephone line
[3941]	AC Failure	AC power not detected. Also, see Power Fail Report Delay in section 8.11
[3942]	Battery Failure	battery is disconnected or the battery voltage is less than or equal to 10.5V
[3943]	Auxiliary Supply	the aux power supply's current is greater than or equal to 1.1A

Section	Event	Description
[3944]	Bell Output	bell output is disconnected or the current is greater than or equal to 3A
[3945]	Clock Loss	panel time lost (see section 11.16)
[3946]	Fire Loop Trouble	tamper on a fire zone (see section 4.3)
[3947] TO [3949]		Future Use
[3950]	Bus Fault	a module was removed from the combus
[3951]	Module Tamper	tamper/wire fault on module (not a motion detector) on the combus
[3952]	ROM Check Error	on-board Read-Only Memory trouble
[3953]	Module TLM	TLM failure detected on Voice-Assisted Arm/Disarm Module (APR3-ADM2)
[3954]	Module Fail to Communicate	DGP2-DVAC failed to communicate with the Monitoring Station
[3955]	Printer Fault	Printer Module detected an error
[3956]	Module AC Failure	no AC power detected on a module
[3957]	Module Battery Failure	battery on a module is disconnected or the battery voltage is low
[3958]	Module Auxiliary Failure	The AUX output on a module has exceeded current limits
[3959]	Future Use	Future Use
[3960]	Wireless Transmitter Low Battery	the battery voltage is low on a wireless transmitter
[3961]	Wireless Module Supervision Failure	This report code is global unless using the Contact ID or SIA reporting formats
[3962] to [3964]		Future Use
[3965]	Fail to Com 1	Phone Number 1 failed to communicate*
[3966]	Fail to Com 2	Phone Number 2 failed to communicate*
[3967]	Fail to Com 3	Phone Number 3 failed to communicate*
[3968]	Fail to Com 4	Phone Number 4 failed to communicate*
		* No "Fail to Communicate" for Pager telephone numbers

8.2.12 System Trouble Restore Codes

When a trouble described in sections **[3940]** to **[3961]** is corrected, the control panel can send the report code to the Monitoring Station.

Section	Event	Section	Event
[3970]	TLM1 Restored	[3981]	Module Tamper Restored
[3971]	AC Restored	[3982]	ROM Check Error Restored
[3972]	Battery Restored	[3983]	Module TLM Restored
[3973]	Auxiliary Supply Restored	[3984]	Module Fail to Communicate Restored
[3974]	Bell Output Restored	[3985]	Printer Fault Restored
[3975]	Clock Loss Restored	[3986]	Module AC Failure Restored
[3976]	Fire Loop Restored	[3987]	Module Battery Restored
[3977]	Future Use	[3988]	Module Auxiliary Restored
[3978]	Future Use	[3989]	Future Use
[3979]	Future Use	[3990]	Wireless Transmitter Battery Restored
[3980]	Bus Fault Restored	[3991]	Wireless Module Supervision Restored

If the Telephone Line Monitoring (see section 9.1) is disabled, the control panel will not transmit the TLM report code.

8.3 REPORT ARMING AND DISARMING

The following two features combine to identify when a partition should be armed and disarmed and enable the control panel to communicate deviations from the normal schedule to the Monitoring Station.

8.3.1 Enable Arming and Disarming Report Schedules

(Default = disabled) If the partition is armed or disarmed during times not programmed in the Arming and Disarming Report Schedules (see section 8.3.2), the control panel will send the corresponding report code Early to

Close **[3916]**, Late to Close **[3917]**, Early to Open **[3926]** or Late to Open **[3927]**. In the desired section enable options **[5]** and **[6]** to enable the Arming and Disarming Report Schedules:

Partition 1: **[3122]**	Partition 3: **[3322]**	Partition 5: **[3522]**	Partition 7: **[3722]**
Partition 2: **[3222]**	Partition 4: **[3422]**	Partition 6: **[3622]**	Partition 8: **[3822]**

Option	Feature
[5]	Arming Report Schedule
[6]	Disarming Report Schedule

8.3.2 Arming and Disarming Report Schedules

Arming and Disarming Report Schedules identify the days and times that a partition should be armed and disarmed. Each partition includes an Arming Report Schedule and a Disarming Report Schedule. Each schedule consists of 2 programmable time periods called Intervals that determine the time span and days when the partition should be armed or disarmed (see Figure 8-2). To enable the schedules, refer to section 8.3.1.

Figure 8-2: Example of an Arming and a Disarming Report Schedule

Section [3102]: Arming Schedule (partition 1)
Interval 1: Start Time 16:55 End Time 17:30 Options 2, 3, 4, 5 & 6

Section [3103]: Disarming Schedule (partition 1)
Interval 1: Start Time 08:50 End Time 09:10 Options 2, 3, 4, 5, 6

On Monday, Tuesday, Wednesday, Thursday and Friday:
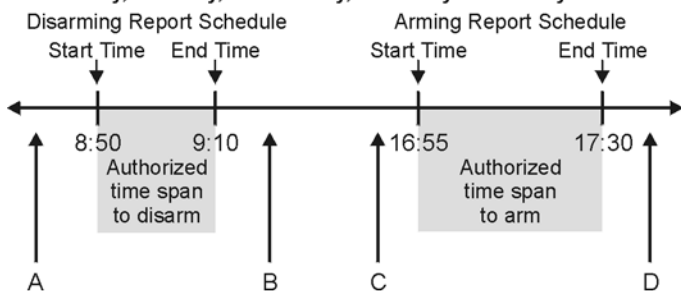
A = If partition is disarmed, Early to Open report code sent.
B = If partition is disarmed, Late to Open report code sent.
C = If partition is armed, Early to Close report code sent.
D = If partition is armed, Late to Close report code sent.

In the section that corresponds to the desired partition, program the Start Time and End Time according to the 24-hour clock and enable the options representing the desired Days. When option [8] is enabled, access is permitted during the programmed holidays (see section 13.8).

Arming Report Schedule

Partition 1: **[3102]**	Partition 3: **[3302]**	Partition 5: **[3502]**	Partition 7: **[3702]**
Partition 2: **[3202]**	Partition 4: **[3402]**	Partition 6: **[3602]**	Partition 8: **[3802]**

Disarming Report Schedule

Partition 1: **[3103]**	Partition 3: **[3303]**	Partition 5: **[3503]**	Partition 7: **[3703]**
Partition 2: **[3203]**	Partition 4: **[3403]**	Partition 6: **[3603]**	Partition 8: **[3803]**

Option	Day	Option	Day
[1]	Sunday (S)	**[5]**	Thursday (T)
[2]	Monday (M)	**[6]**	Friday (F)
[3]	Tuesday (T)	**[7]**	Saturday (S)
[4]	Wednesday (W)	**[8]**	Holidays (H)

8.3.3 Arming/Disarming Schedule Tolerance Window

(Default = 000) The Arming/Disarming Schedule Tolerance Window lengthens the partition's Arming/Disarming Schedule for some users. User Access Codes with *Add Tolerance Windows to Schedules* enabled (refer to

the System Manager's Manual) have the number of minutes programmed in these sections added before and after the corresponding partition's schedule. This allows certain individuals more flexibility without modifying all the Schedules.
For example, using Figure 8-2 in section 8.3.2 if 015 is programmed in section [3104], users with Add Tolerance Windows to Schedules enabled on their cards can disarm between 8:35 and 9:25 and can arm between 16:40 and 17:45 without the control panel sending the report codes.
Enter any value between 001 and 255 to determine Arming/Disarming Schedule Tolerance Window in minutes.

Partition 1: **[3104]**	Partition 3: **[3304]**	Partition 5: **[3504]**	Partition 7: **[3704]**
Partition 2: **[3204]**	Partition 4: **[3404]**	Partition 6: **[3604]**	Partition 8: **[3804]**

⚠️ *The Arming/Disarming Schedule Tolerance Window applies to the Arming and Disarming Report Schedules only (section 8.3.1 and section 8.3.2). The Arming/Disarming Schedule Tolerance Window does not apply to Access Schedules (section 13.6).*

8.4 MONITORING STATION PHONE

SECTIONS [3071] TO [3074]
The control panel can dial up to 4 different Monitoring Station telephone numbers. Sections **[3071]** to **[3074]** represent Monitoring Station telephone numbers 1 through 4. Enter any digit from 0 to 9 and any special keys or functions (see Table 3) up to a maximum of 32 digits. Refer to Event Call Direction in section 8.8 and Reporting Formats in section 8.7 for details on how these telephone numbers are used.

Table 3: Special Telephone Number Keys

Function	LCD	Grafica
*	**[STAY]**	**[#]** (Press the key until the desired letter/symbol appears)
#	**[FORCE]**	
Switch to Tone Dialing (T)	**[ARM]**	
Wait for second dial tone (W)	**[DISARM]**	
4-second pause (P)	**[BYP]**	
Insert	**[MEM]**	—
Delete	**[TRBL]**	—
Delete from cursor to end	**[ACC]**	Left action key (**Clear**)

8.5 ACCOUNT NUMBER

SECTIONS [3061] TO [3068]
(Default = 000) All report codes are preceded by a 3- or 4-digit Account Number to ensure correct identification of system events. The Account Number that is transmitted with the report code can correspond either to the partition or to the central station telephone number (see section 8.6 on page 27). Account Numbers can be any hexadecimal value from 0 to F.

Table 4: Account Numbers

Section	Account Number	Section [3035], option [6] = disabled	Section [3035], option [6] = enabled
[3061]	Account Number 1	Partition 1	CSTN 1
[3062]	Account Number 2	Partition 2	CSTN 2
[3063]	Account Number 3	Partition 3	CSTN 3
[3064]	Account Number 4	Partition 4	CSTN 4
[3065]	Account Number 5	Partition 5	N/A
[3066]	Account Number 6	Partition 6	N/A
[3067]	Account Number 7	Partition 7	N/A
[3068]	Account Number 8	Partition 8	N/A

For example, if the Account Number Transmission (see section 8.6 on page 27) corresponds to the partition, and a zone generates an alarm in Partition

1, the control panel will send the Partition 1 Account Number defined in section [3061] followed by the report code.

⚠️ ***Only the SIA format supports the [0] = 0 digit in its account numbers. Account numbers that use other reporting formats do not support the [0] = 0 digit. Enter the [STAY] = A digit in its place. When using the SIA Format, and the Account Number Transmission (see section 8.6 on page 27) corresponds to the partition, the control panel only uses the Partition 1 Account Number programmed in section [3061], but the report code includes the partition number.***

8.6 ACCOUNT NUMBER TRANSMISSION

SECTION [3035]: OPTION [6]
(Default = Partition Account #) Option **[6]** determines whether the account number that is sent to the central station corresponds to a partition or to a central station telephone number (CSTN).

With option **[6]** enabled, the account number that is sent to the central station corresponds to the CSTN that was dialed. Regardless of which partition the report originated from, the account number for the corresponding CSTN will be transmitted instead of the corresponding partition account number. *For example, a report originating from partition 8 is transmitted to CSTN 1. Although the report originated from partition 8, Account Number 1 (see Table 4 on page 26) is transmitted with the report.*

With option **[6]** disabled, the account number that is sent to the central station corresponds to the partition where the event originated, regardless of which CSTN is dialed. *For example, a report originating from partition 8 is transmitted to CSTN 1. The account number that is transmitted to CSTN 1 is Account Number 8 (see Table 4 on page 26).*

8.7 REPORTING FORMATS

SECTION [3070]
The control panel can use a number of different reporting formats, but each of the four Monitoring Station Phone Numbers (see section 8.4) should be programmed with the same reporting format unless they are combined with a Pager format. The first digit entered into section **[3070]** represents the reporting format (see Table 5) used to communicate with Monitoring Station telephone number 1, the second digit represents telephone number 2, etc.

Compatible Digital Alarm Communication Receivers (DACRs):*
- Sur-Gard DRL2A
- Ademco 685
- Osborne Hoffman Quick Alert II

Table 5: Reporting Formats*

0 = Ademco slow (1400Hz, 1900Hz, 10BPS)	**4** = Contact ID Pager
1 = Silent Knight fast (1400Hz, 1900Hz, 20BPS)	**5** = Ademco Contact ID
2 = Sescoa (2300Hz, 1800Hz, 20BPS)	**6** = SIA FSK
3 = Ademco Express (DTMF 4+2)	**7** = Pager

* UL Note: Installer must verify the compatibility with of the DACR. Use listed compatible DACRs.

8.7.1 Standard Pulse Formats
The control panel can use the Ademco slow, Silent Knight fast and Sescoa standard pulse reporting formats (see Table 5).

8.7.2 Ademco Express
The Ademco Express is a high-speed reporting format that communicates 2-digit (00 to FF) report codes. Unlike other Ademco formats, the Ademco Express does not use the Contact ID Report Codes.

8.7.3 Contact ID Pager
Using this format, the control panel will transmit a Contact ID report instead of a user generated numerical code to a pager. The Contact ID report code

will come from either the Automatic Report Code List on page 52 or the Contact ID Report Code List on page 54.

8.7.4 Ademco Contact ID
Ademco Contact ID is a fast communicator format that uses tone reporting instead of pulse reporting. It also uses a pre-defined list of industry standard messages and report codes that will suit most basic installation needs. To manually program the report codes, use the 2-digit hexadecimal values from the *Contact ID Report Codes List* in the *Programming Guide*. Enter 00 to disable reporting or FF to use the default report code from the *Automatic Report Code List* in the *Programming Guide*. To automatically program a set of default Contact ID codes, refer to section 8.15.

8.7.5 SIA FSK
SIA FSK is a fast communicator format that uses tone reporting instead of pulse reporting. This communicator format uses a pre-defined list of industry standard messages and report codes that will suit most basic installation needs. To manually program the report codes, enter 00 to disable reporting or any other value to use the default report code from the *Automatic Report Code List* in the *Programming Guide*. To automatically program a set of default SIA FSK codes, refer to section 8.15.

8.7.6 Pager Reporting Format
Using this format allows the control panel to transmit report codes to a pager. A pound symbol "#" is automatically generated after the report code. Also refer to Pager Delay in section 8.9.

8.8 EVENT CALL DIRECTION

As shown in Figure 8-1 on page 23, the control panel events are divided into three event groups for each partition and two global event groups. Each event group can be programmed to dial up to four Monitoring Station telephone numbers with one used as a backup. The numbers are dialed sequentially starting from 1, skipping any disabled numbers and stopping once all selected telephone numbers have been reached. If the control panel still fails to report to a Monitoring Station telephone number after reaching the Maximum Dialing Attempts (see section 8.8.1), the control panel will dial the selected backup telephone number unless the Alternate Backup Option is enabled (see section 8.8.3). When the Alternate Backup Option is enabled, the control panel will dial the backup number after every failed attempt. For each section enable or disable the options:

Dialing sequence for: Troubles and Restore Troubles: **[3080]**
Dialing sequence for: Special System, Arming, Disarming, and Alarm Reporting: **[3081]**

Dialing sequence for: Access Code and Keyswitch Arming and Disarming

Partition 1: **[3127]**	Partition 3: **[3327]**	Partition 5: **[3527]**	Partition 7: **[3727]**
Partition 2: **[3227]**	Partition 4: **[3427]**	Partition 6: **[3627]**	Partition 8: **[3827]**

Dialing sequence for: Zone Alarms and Alarm Restores

Partition 1: **[3128]**	Partition 3: **[3328]**	Partition 5: **[3528]**	Partition 7: **[3728]**
Partition 2: **[3228]**	Partition 4: **[3428]**	Partition 6: **[3628]**	Partition 8: **[3828]**

Dialing sequence for: Tampers and Tamper Restores

Partition 1: **[3129]**	Partition 3: **[3329]**	Partition 5: **[3529]**	Partition 7: **[3729]**
Partition 2: **[3229]**	Partition 4: **[3429]**	Partition 6: **[3629]**	Partition 8: **[3829]**

(Default = only option [1] enabled)

Option	Call:	Option	Call (select one only):
[1]	Telephone Number 1	**[5]**	Backup on Number 1
[2]	Telephone Number 2	**[6]**	Backup on Number 2

[3]	Telephone Number 3	**[7]**	Backup on Number 3
[4]	Telephone Number 4	**[8]**	Backup on Number 4

*8.8.1 Maximum Dialing Attempts***

SECTION [3056]

(Default = 008) The number (001 to 255, 000 = 8 attempts) programmed into section **[3056]** determines how many times the control panel will dial the same Monitoring Station Telephone Number before proceeding to the next number. Also refer to section 8.8.3.

** UL Note: For UL Listed systems, the maximum dialing attempts must be set to 5 to 10 attempts between the DGP-NE96's two telephone lines.

8.8.2 Delay Between Dialing Attempts

SECTION [3054]

(Default = 020) This delay will determine the amount of time the control panel will wait between dialing attempts. This delay can be set from 001 to 127 seconds.

8.8.3 Alternate Dialing Option

SECTION [3037]: OPTION [6]

(Default = disabled) With option **[6]** enabled in section **[3037]**, the control panel dials the selected backup telephone number after every failed attempt to contact a Monitoring Station Telephone Number. Otherwise (option [6] off), the control panel only dials the backup telephone number after the Maximum Dialing Attempts (see section 8.8.1) to one Monitoring Station Telephone Number fail.

8.9 PAGER DELAY

SECTION [3057]

(Default = 060) When using the Pager Reporting Format (see section 8.7.6), the control panel will wait for the delay period programmed into section **[3057]** before uploading the report codes to the pager. This is to allow time for the pager system to provide a dial tone or to bypass the welcome message before sending the data. Enter any value between 001 and 127 to determine Pager Delay in seconds.

8.10 RECENT CLOSE DELAY

(Default = 000) If, after arming the partition, an alarm is generated within the programmed period, the control panel will transmit the *Recent Close* report code programmed into section **[3933]**. Enter any value between 001 and 255 to determine Recent Close Delay in seconds.

Partition 1: **[3109]**	Partition 3: **[3309]**	Partition 5: **[3509]**	Partition 7: **[3709]**
Partition 2: **[3209]**	Partition 4: **[3409]**	Partition 6: **[3609]**	Partition 8: **[3809]**

8.11 POWER FAILURE REPORT DELAY

SECTION [3058]

(Default = 030) The control panel will delay the transmission of the *AC Failure* report code programmed into section **[3941]** by the period programmed into section **[3058]**. Enter any value between 001 and 255 to determine Power Failure Report Delay in minutes.

8.12 AUTO TEST REPORT

SECTION [3037]: OPTION [3] AND [4] AND
SECTIONS [3040], [3041], [3042] AND [3043]

The control panel can transmit the test report code programmed into section **[3902]** every hour (Hourly Test Transmission) or after a period of time (Auto Test Report Period).

Option		Feature	Description
[3]	**[4]**		
OFF	OFF	Auto Test Report Period (default)	After the number of days (000 to 255, default = 000) programmed into section **[3040]** elapse, the control panel can transmit the report code at the time (00:00 to 23:59, default = 00:00) programmed into section **[3041]**.
ON	OFF	Hourly Test Transmission	The control panel transmits the test report code at the same time every hour. Program the minute of each hour (00:00 to 00:59, default = 00:00) when the test report should be sent into section **[3041]**.
ON	ON	Timed Test Transmission when Armed/ Disarmed	**When armed**: The control panel transmits the test report code at regular intervals while the partition is armed. Program the number of minutes (000 to 255, default 005) between each transmission in section **[3042]**. **When disarmed**: The control panel transmits the test report code at regular intervals while the partition is disarmed. Program the number of minutes (000 to 255, default = 060) between each transmission in section **[3043]**.

8.13 DISARM REPORTING OPTIONS

(Default = disabled) When option **[7]** is disabled, the control panel sends the Disarming Report Codes (see section 8.2) every time the partition is disarmed. When option **[7]** is enabled, the control panel sends the Disarming Report Codes to the Monitoring Station only when the partition is disarmed following an alarm. Select the section that corresponds to the desired partition and enable or disable option **[7]**:

Partition 1: **[3123]**	Partition 3: **[3323]**	Partition 5: **[3523]**	Partition 7: **[3723]**
Partition 2: **[3223]**	Partition 4: **[3423]**	Partition 6: **[3623]**	Partition 8: **[3823]**

8.14 ZONE RESTORE REPORT OPTIONS

SECTION [3037]: OPTION [8]

(Default = disabled) When option **[8]** is disabled, the control panel sends the *Zone Alarm Restore* report codes to the Monitoring Station when the Bell Cut-Off Timer elapses (see section 7.2) or when the alarm is disarmed. When option **[8]** is enabled, the control panel sends the *Zone Alarm Restore* report codes (see section 8.2) to the Monitoring Station as soon as the zone returns to normal (zone closure) or upon disarming.

8.15 AUTO REPORT CODE PROGRAMMING

When using either the Contact ID or SIA Reporting Formats (see section 8.7), the control panel can automatically program a set of default report codes. However, the Contact ID Reporting Format can be modified using the manual programming method (see section 8.7.4 & section 8.7.5) to program remaining report codes or to change some of the defaults. From programming mode (see section 3.4) enter any of the following sections to set the indicated report codes with the default values (FF) from the Automatic Report Codes List in the *Programming Guide*:

Section	Description
[4030]	Resets all the report code sections to 00 (cleared).
[4031]	Sets all the report code sections to FF (defaults).

Section	Sets to Defaults (FF)	Reset Sections
[4032]	Zone Alarm and Restore Report Codes Tamper and Restore Report Codes	**[0201]** to **[0296]**
[4033]	Keyswitch Arming Report Codes Keyswitch Disarming Report Codes Access Code Arming Report Codes Access Code Disarming Report Codes	**[0701]** to **[0732]** **[0801]** to **[0832]** **[2001]** to **[2099]** **[2101]** to **[2199]**
[4034]	Special System Report Codes	**[3900]** to **[3909]**

[4035]	Special Arming Report Codes Special Disarming Report Codes	[3910] to [3919] [3920] to [3929]
[4036]	Special Alarm Report Codes	[3930] to [3939]
[4037]	Trouble and Restore Report Codes	[3940] to [3991]

8.16 CLOSING DELINQUENCY TIMER

(Default = 000; Disabled) When a partition in the system is disarmed, the control panel will start the corresponding partition's Closing Delinquency Timer, which is programmed for each partition. If the Closing Delinquency Timer elapses before the partition is armed again, DigiplexNE will transmit a "Closing Delinquency" report code to the central monitoring station. Enter a value from 001 to 255 days into the appropriate section. Enter 000 to disable the Closing Delinquency Timer.

For example, the Closing Delinquency Timer for partition 1 (section [3119]) is programmed for 005 days. When the system is disarmed, DigiplexNE will begin the Closing Delinquency Timer for partition 1. If the partition has not been armed within five days, DigiplexNE will transmit a "Closing Delinquency" report code to the central monitoring station.

Partition 1: [3119]	Partition 3: [3319]	Partition 5: [3519]	Partition 7: [3719]
Partition 2: [3219]	Partition 4: [3419]	Partition 6: [3619]	Partition 8: [3819]

DIALER OPTIONS

9.1 TELEPHONE LINE MONITORING

SECTION [3036]: OPTIONS [1] AND [2]
When enabled, the system verifies the existence of the main telephone line
once every second. After each successful test, the Status LED on the
control panel flashes briefly. A line test failure occurs when the TLM detects
less than 3 volts for the period defined by the TLM Fail Timer (see section
9.1.1). If the line test fails, the control panel will generate one or more
conditions as defined by the TLM settings below, until it detects the
telephone line again. When the dialer detects a telephone ring, the TLM
test stops for 1 minute.

Option		Feature	When the line test fails
[1]	[2]		
OFF	OFF	Disabled	TLM disabled (default) .
ON	OFF	Trouble Only	The *Communicator* trouble appears in the Trouble Display.
OFF	ON	Alarm when Armed	The *Communicator* trouble appears in the Trouble Display. If the partition is armed, the control panel generates an alarm.
ON	ON	Silent Alarms become Audible	The *Communicator* trouble appears in the Trouble Display. The control panel switches any triggered *Silent Alarm* zones or *Silent* panic alarms to an audible alarm.

9.1.1 TLM Fail Timer

SECTION [3053]
(Default = 016) If the TLM does not detect the existence of the main
telephone line for the time programmed in this section, the control panel will
generate the condition(s) defined by the TLM options (see section 9.1).
Enter any value between 016 and 255 (value is X2 seconds) into section
[3053]. Entering a value between 000 and 016 will set the TLM Fail Timer
to 32 seconds.

9.2 TONE/PULSE DIALING

SECTION [3036]: OPTION [4]
(Default = enabled) When option **[4]** is enabled, the control panel can dial
using the tone/DTMF format. When option **[4]** is disabled, the control panel
uses the pulse dialing format. Refer to section 9.3 for setting the pulse ratio.

Option		Feature
[4]	ON	Tone/DTMF format
[4]	OFF	Pulse dialing format

9.3 PULSE RATIO

SECTION [3036]: OPTION [5]
(Default = enabled) When using Pulse dialing (see section 9.2), select one
of two Pulse Ratios. Although most European countries use the 1:2 pulse
ratio, the 1:1.5 ratio may provide better results in some cases. If the 1:1.5
pulse ratio is not providing the desired results in North American countries,
the 1:2 ratio may be used.

Option		Feature
[5]	ON	North American pulse ratio of 1:1.5
[5]	OFF	European pulse ratio of 1:2

9.4 BUSY TONE DETECTION

SECTION [3036]: OPTION [6]
(Default = enabled) When option **[6]** is enabled, the control panel
immediately hangs up if it receives a busy signal when it dials an outside
number.

9.5 SWITCH TO PULSE

SECTION [3036]: OPTION [7]
(Default = disabled) When option **[7]** is enabled, the control panel switches
from tone dialing to pulse dialing on the fifth attempt to report events to the
Monitoring Station. The control panel continues to use pulse dialing until it
establishes communication. When the control panel switches to another
Monitoring Station telephone number, it returns to tone dialing and switches
back to pulse dialing on the fifth attempt.

9.6 BELL ON COMMUNICATION FAIL

SECTION [3036]: OPTION [8]
(Default = disabled) When option **[8]** is enabled and the control panel fails
to communicate with the Monitoring Station when the partition is armed, the
control panel can enable the BELL output.

9.7 KEYPAD BEEP ON SUCCESSFUL ARM OR DISARM REPORT

SECTION [3037]: OPTION [5]
(Default = disabled) When option **[5]** is enabled and a user arms or disarms
a partition, the keypad emits a beep tone to confirm that the Monitoring
Station received the arming or disarming report code.

9.8 DIAL TONE DELAY

SECTION [3037]: OPTION [7]
(Default = disabled) When option **[7]** is enabled, the dialer hangs up if no
dial tone is present after 32 seconds. When option **[7]** is disabled, the dialer
dials even if no dial tone is present after 3 seconds. If more time is required,
insert a 4-second pause into the desired telephone number sequence (see
section 8.4).

Option		Feature
[7]	ON	If no dial tone is present, dialer hangs up.
[7]	OFF	If no dial tone is present, force dials.

30 REFERENCE & INSTALLATION MANUAL

A PGM is a programmable output that toggles to its opposite state (i.e. a normally open PGM will close) when a specific event occurs in the system. *For example, a PGM can be used to reset smoke detectors, activate strobe lights, open/close garage doors and much more.*
When a PGM closes, the control panel supplies a ground to the PGM activating any device or relay connected to it. When a PGM opens, the circuit opens from ground, therefore not providing any power to the devices connected to it. The control panel provides a maximum of 100mA to PGM1 and 5A to PGM2 and PGM3. PGM1 is a normally open transistor output and PGM2 and PGM3 are normally open or normally closed 5A relays. For details on how to connect a relay to a PGM, please refer to section 2.8 on page 4.

10.1 PGM ACTIVATION EVENT

The PGM Activation Event determines which event will activate the PGM. The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # sets the range within the Feature Group (see PGM Programming Table in the *Programming Guide*).
For example, the control panel can activate PGM1 when the partition is armed by User Access Codes 256 to 260. Therefore:
Event Group section [0910] = 010 "Arming with User Code"
Feature Group section [0911] = 001 "User Codes 256 to 511"
Start # section [0912] = 000
End # section [0913] = 004
Enter the sections that correspond to the Event Group, Feature Group, Start # and End # of the desired PGM and enter the desired 3-digit number from the PGM Programming Table:

	Event Group	Feature Group	Start #	End #
PGM 1:	**[0910]**	**[0911]**	**[0912]**	**[0913]**
PGM 2:	**[0920]**	**[0921]**	**[0922]**	**[0923]**
PGM 3:	**[0930]**	**[0931]**	**[0932]**	**[0933]**

10.2 PGM DEACTIVATION OPTION

Once the PGMs are activated (see section 10.1), they can deactivate when another event occurs or after a period of time. The PGM Deactivation Option determines which method is used, the PGM Deactivation Event (see section 10.4) or the PGM Timer (see section 10.5). Enter the section that corresponds to the desired PGM and enable or disable option **[1]** (default = PGM Deactivation Event):

PGM 1: **[0919]**
PGM 2: **[0929]**
PGM 3: **[0939]**

Option		Feature
[1]	ON	PGM Timer
[1]	OFF	PGM Deactivation Event

10.3 FLEXIBLE PGM DEACTIVATION OPTION

The PGM Deactivation Option (see section 10.2) must be set to *PGM Timer* for this feature to function. The Flexible PGM Deactivation Option uses the benefits of both the PGM Deactivation Event (see section 10.4) and the PGM Timer (see section 10.5). When option **[3]** is enabled and the PGM is activated (see section 10.1), it will deactivate when **either** the PGM Deactivation Event occurs **or** the PGM Timer elapses, whichever happens first.
For example, the PGM activates and the PGM Timer is set for 5 minutes. However, the PGM Deactivation Event occurs before 5 minutes ends so the PGM deactivates.
Enter the section corresponding to the PGM and enable option **[3]** (default = disabled):

PGM 1: **[0919]**	PGM 2: **[0929]**	PGM 3: **[0939]**

10.4 PGM DEACTIVATION EVENT

The PGM Deactivation Event determines which event will return the PGM to its original state. The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # determine the range within the Feature Group. The complete PGM Programming Table appears in the Programming Guide.
For example, to deactivate PGM1 when zone 3 opens, program:
Event Group section [0914] = 001 "Zone is Open"
Feature Group section [0915] = 000 "Zone Numbers"
Start # section [0916] = 003
End # section [0917] = 003
Enter the sections that correspond to the Event Group, Feature Group, Start # and End # of the desired PGM and enter the desired 3-digit number from the PGM Programming Table.

	Event Group	Feature Group	Start #	End #
PGM 1:	**[0914]**	**[0915]**	**[0916]**	**[0917]**
PGM 2:	**[0924]**	**[0925]**	**[0926]**	**[0927]**
PGM 3:	**[0934]**	**[0935]**	**[0936]**	**[0937]**

10.5 PGM TIMER

When the PGM Deactivation Option (see section 10.2) is enabled, the PGM Timer determines how many seconds or minutes (see section 10.5.1) the PGM remains activated before it returns to its original state.

Enter the section that corresponds to the desired PGM and enter a value from 001 to 255 (default = 005). The value entered is either in seconds or minutes as determined by the PGM Time Base Selection (see section 10.5.1).

PGM 1: **[0918]**	PGM 2: **[0928]**	PGM 3: **[0938]**

10.5.1 PGM Time Base Selection
The PGM Time Base Selection determines whether the PGM Timers in sections [0918], [0928] and [0938] are in minutes or seconds (default = seconds). Enter the section corresponding to the desired PGM and enable or disable option **[2]**:

PGM 1: **[0919]**
PGM 2: **[0929]**
PGM 3: **[0939]**

Option		Feature
[2]	ON	Minutes
[2]	OFF	Seconds

10.6 PGM1 BECOMES A 2-WIRE SMOKE DETECTOR INPUT*

SECTION [3030]: OPTION [1]
(Default = disabled) Enabling option **[1]** in section **[3030]** sets PGM1 to act as a zone input for two-wire smoke detectors. When programming Zone Numbering (see section 4.1), the control panel will recognize PGM1 as input number 255. For two-wire smoke detector connections, please refer to section 2.17.1 on page 9.

UL Note: Not verified by UL.

10.7 PGM TEST MODE

Entering sections **[0901]** to **[0903]** activates the corresponding PGM for 8 seconds to verify if the PGM is functioning as desired.

PGM 1: **[0901]**	PGM 2: **[0902]**	PGM 3: **[0903]**

11.1 HARDWARE RESET

A Hardware Reset sets sections **[0001]** to **[3991]** to default, including the Installer and System Master Codes. Only the Panel ID, PC Password, PC Telephone Number and Event Buffer are not reset. A Hardware Reset cannot be performed on a control panel with the Installer Code Lock enabled (see section 11.3).

1) Make sure the Installer Code Lock is disabled
2) Remove the battery and AC power from the control panel.
3) Place the RESET jumper on the reset pins of the control panel.
4) Re-connect the AC power and the battery to the control panel.
5) Wait 10 seconds and remove the jumper.

11.2 SOFTWARE RESET

Performing a software reset will set certain parameters to default values or program certain sections with a set of pre-defined values. To do so:

1) Place the RESET jumper on the reset pins of the control panel.
2) Enter Panel Programming Mode (see section 3.4).
3) Enter the 4-digit **[SECTION]** of the software reset you wish to perform:

Section	Description
[4040]	Resets the programmable sections from **[0001]** to **[3991]** to default (even if Installer Code Lock is enabled). The Event Buffer, Panel ID, PC Password, PC Telephone Number and Zone, Door, Partition and User Labels (see section 12.4) will not reset.
[4041]	Resets the System Master Code to 123456.
[4042]	Resets all Zone Programming sections from **[0001]** to **[0196]**, **[0201]** to **[0296]** and **[0961]** to **[0984]** to default.
[4043]	Resets the Access Control sections, except Door Labels (see section 11.24), from **[2201]** to **[2712]** to default.
[4044]	Resets all User Access Code Programming sections from **[1001]** to **[1999]** and **[2001]** to **[2199]** to default. User Labels (see section 12.4) will not be reset.
[4045]	Resets all control panel settings from **[3020]** to **[3043]** and from **[3900]** to **[3991]** and all the Dialer sections from **[3051]** to **[3081]** to default.
[4046]	Resets all Partition Settings, except Partition Labels (see section 11.24), from **[3101]** to **[3829]** to default.
[4047]	Resets Keyswitch Programming sections from **[0501]** to **[0832]** and all Programmable Outputs sections from **[0901]** to **[0939]** to default.
[4048]	Entering this section resets the User Labels from the User Access Codes, the Zone Labels from **[0301]** to **[0396]**, Door Labels from **[2301]** to **[2332]**, Partition Labels **[3100]**, **[3200]**, **[3300]**, **[3400]**, **[3500]**, **[3600]**, **[3700]** and **[3800]** to default.

⚠️ ***Do not remove power from the control panel.***

11.3 INSTALLER CODE LOCK

SECTION [3001]

(Default = 000) Enter 147 into section **[3001]** to lock all programming. When 147 is programmed, performing a hardware reset as described in section 11.1 will not affect the current panel settings. To remove the Installer Lock, enter 000 into section **[3001]**.

11.4 DAYLIGHT SAVINGS TIME

SECTION [3030]: OPTION [3]

(Default = enabled) When option **[3]** is enabled, the control panel adjusts the system's clock (time) for daylight saving changes. At 2:00AM on the first Sunday of a full weekend in April, the control panel will add one hour to the programmed time (clock). At 2:00AM on the last Sunday of a full weekend in October, the control panel will subtract one hour from the time (clock).

11.5 BATTERY CHARGE CURRENT

SECTION [3030]: OPTION [5]

When option **[5]** is enabled, the battery's charge current is 700mA (min. 40VA transformer). When option **[5]** is disabled, the charge current is 350mA. Depending on the battery's capacity, enable or disable the option:

Option		Feature
[5]	ON	700mA
[5]	OFF	350mA (default)

11.6 COMBUS SPEED

SECTION [3030]: OPTION [8]

This feature sets the communication speed between the control panel and the modules to either Normal or High speed. In large installations with many modules where a quicker communication response time is needed, set the speed to High. If you are experiencing communication troubles, set the speed to Normal or install a Hub (APR3-HUB2) on the combus. The modules will detect the speed set in the control panel and adjust their internal parameters accordingly. When a change is made to the combus speed, the control panel will restart within one minute to allow the modules to adjust to the change.

Option		Feature
[8]	ON	High Speed
[8]	OFF	Normal Speed (default)

Please note that when the combus speed is changed the following will occur and is considered normal operation:
- *The message COMM. TROUBLE CALL SERVICE will be displayed on keypads connected to the combus.*
- *The AC and STATUS LEDs will begin to alternately flash and all operations on the system will be suspended for approximately one minute while the system reconfigures itself.*

11.7 TRANSMIT ZONE STATUS ON SERIAL PORT

SECTION [3035]: OPTION [7]

By enabling option **[7]**, the control panel will transmit zone status information (*zone open*, *zone close*, *zone tamper* and *fire loop*) through the serial port. Use this feature when there are devices or software connected to the serial port of the control panel that require zone status information such as WinLoad and the APR3-PRT1 Printer Module.

11.8 SERIAL PORT BAUD RATE

SECTION [3035]: OPTION [8]

When option **[8]** is enabled, the serial port's baud rate is 38,400 baud. When option **[8]** is disabled, the baud rate is 19,200 baud. Depending on the baud rate set in WinLoad or NEware, enable or disable option **[8]**:

Option		Feature
[8]	ON	38,400 baud
[8]	OFF	19,200 baud (default)

*If communication between the control panel and the computer is experiencing difficulty at 38,400 baud, especially over long distances, disable option **[8]** and reduce the baud rate of the software to 19,200 baud.*

11.9 PARTITIONING

SECTION [3031]: OPTIONS [1] TO [8]

(Default = only partition 1 enabled) The control panel can provide up to eight completely independent partitions. Most features and options can be independently set for each partition such as Event Reporting, Entry/Exit

Delay, Bell Squawk, One-touch Arming, Panic Alarms and many more. All zones, keyswitch zones, user codes and system modules are assigned to specific partitions, making this a true partitioned system. Enable the option(s) that correspond to the desired partition(s):

Option	Description	Option	Description
[1]	Partition 1	**[5]**	Partition 5
[2]	Partition 2	**[6]**	Partition 6
[3]	Partition 3	**[7]**	Partition 7
[4]	Partition 4	**[8]**	Partition 8

11.9.1 Panel Partition Assignment

SECTION [3020]

(Default = 00) The control panel will report system events as originating from one or all enabled partitions. The System Troubles (i.e. AC Failure, TLM Failure, etc.) can only be viewed through the partitions enabled in this section. Enter a 2-digit decimal number from 01 to 08 which represent partitions 1 to 8. Enter 00 to disable this feature.

11.10 SHABBAT FEATURE

SECTION [3030]: OPTION [4]

(Default = disabled) When option **[4]** is enabled, detectors and keypads in the system no longer display system status through the LCD and/or LEDs between noon (12:00PM) Friday and midnight (12:00AM) Saturday. Normal operation is re-instated Sunday morning at 12:00:01AM. If required, a user can access all the usual commands and features during the Shabbat period by pressing a key or by entering their access code (also depending if and how Confidential Mode is enabled in the keypad). When no actions have occurred for two minutes, the Shabbat Feature will re-activate. During the Shabbat period:
- the LCD keypads only display the date and time
- the backlight is disabled
- the LED indicators on modules are disabled

11.11 INSTALLER FUNCTION KEYS

Press and hold the **[0]** key and key in the **[INSTALLER CODE]** to access the installer functions and then...

For LCD keypads: Press the key indicated in the list below that corresponds to the function you wish to activate.

For Grafica keypads: Press the center action key (**Options**), highlight the desired function and then press the left action key (**Select**).

Keys	Description
[STAY]	TEST REPORT: Sends the *Test Report* report code programmed in section **[3902]** to the Monitoring Station.
[FORCE]	CALL WINLOAD: Dials the PC telephone number programmed in section **[3010]** to communicate with a computer using WinLoad.
[ARM]	ANSWER WINLOAD: Forces the control panel to answer a call made by the Central Monitoring Station that is using WinLoad.
[DISARM]	CANCEL COMMUNICATION: Cancels all communication with the Monitoring Station or WinLoad until the next reportable event.
[MEM]	INSTALLER TEST MODE: Perform walk tests where the bell or siren squawks once when a zone opens and twice when it closes. Press **[MEM]** again to exit. Partitions cannot be armed if the Installer Test Mode is enabled.
[TRBL]	START MODULE SCAN: Verifies the status of modules on the combus. The LCD Keypads display the serial number of each module connected to the combus.
[ACC]	START VOLTMETER READING (DGP2-641 only): Verifies if the combus is supplying sufficient power at the keypad's location (refer to the LCD Keypad Reference & Installation Manual).

11.12 MODULE RESET

SECTION [4001]

To reset a module connected to the combus to its default values, key in the module's serial number into section **[4001]**.

11.13 LOCATE MODULE

SECTION [4002]

To locate a specific module on the combus, key in the module's serial number into section **[4002]**. The green LOCATE LED on the module flashes until the serial number is re-entered into the section or the module's tamper or unlocate switch is pressed.

11.14 MODULE PROGRAMMING

SECTION [4003]

All modules connected to the combus are programmed through the control panel. To program a module, enter section **[4003]** to enter *Module Programming Mode* (see section 3.5), key in the module's serial number and follow the programming indicated in the *DigiplexNE Modules Programming Guide*. To exit this mode, press the **[CLEAR]** key until Normal Mode is displayed.

11.15 MODULE AND LABEL BROADCAST

SECTION [4004]

Module Broadcast

To copy the contents of the programming sections from one module to one or more of the same type, key in the serial number of the source module in section **[4004]**, enter the serial numbers of all the destination modules and press **[ACC]** if using an LCD keypad or the center action key (**Start**) if using a Grafica keypad.

Label Broadcast

Copy the User Labels, Zone Labels (sections **[0301]** to **[0396]**), the Door Labels (sections **[2301]** to **[2332]**) and the Partition Labels (sections **[3100]**, **[3200]**, **[3300]**, **[3400]**, **[3500]**, **[3600]**, **[3700]** and **[3800]**) to all the modules in the system that support these labels. To transmit the labels, in section **[4004]**, enter the control panel's serial number. From the Destination screen, do not enter a serial number and press **[ACC]** if using an LCD keypad or the center action key (**Start**) if using a Grafica keypad.

⚠️ *The Module and Label Broadcast feature will only work when a module is broadcasting its data to a module or to modules of the same type <u>and</u> model number. For example, an <u>APR</u>-PRT1 (Printer Module) cannot broadcast to an <u>APR3</u>-PRT1. Likewise, a <u>DGP</u> module cannot broadcast to a <u>DGP2</u> module.*

Module Broadcast Example:
Using an LCD keypad, to program two zone expansion modules (SN#34540075 and SN#34412100) with the same settings and options of zone expansion module SN#34540033:
1) *Press and hold the [0] key.*
2) *Enter your [INSTALLER CODE] and then enter section [4004].*
3) *Enter 34540033, 34540075, and 34412100 and then press [ACC].*
The control panel automatically copies the contents of 34540033 into the other two zone expansion modules.

Label Broadcast Example:
Using a Grafica keypad, to copy the labels of the control panel (SN#020000A2) to all modules that support the labels:
1) *Press and hold the [0] key.*
2) *Enter your [INSTALLER CODE] and then enter section [4004].*
3) *Enter 020000A2.*
4) *From the Destination screen, press the center action key (Start).*
The control panel will automatically copy its labels to all supporting modules.

11.16 SYSTEM DATE & TIME

The System Date and Time is programmed through the User Menu, please refer to Clock Loss in section 15.12.

11.17 CLOCK COMPENSATION VALUE

(Default = Disabled) When the DigiplexNE's clock is inaccurate, a clock compensation value can be entered into section **[3050]** to correct the time drift. At the beginning of every hour, the control panel will either add or subtract the clock compensation value to/from its clock. Every value from 001 to 125 will add 0.008 seconds and every value from 128 to 253 will subtract 0.008 seconds from the clock. (000 = Disabled)

Adding Values:
001 to 125 = *[value]* x *[.008]* (+0.008 to 1 second)

Subtracting Values:
128 to 253 = *[value]* - *[127]* x *[-.008]* (-0.008 to -1.008 second)

*Example: Entering a value of **100** will add **.800** ([100] x [.008]) seconds to the clock at the beginning of every hour. Likewise, entering a value of **200** will subtract **-0.584** ([200] - [127] x [-.008]) seconds from the clock at the beginning of every hour.*

11.18 REMOVE MODULE

After entering section **[4005]**, the control panel scans all modules on the combus. If modules are missing (i.e. module was removed) during this scan, the control panel erases the module's serial number and removes the module from the control panel's memory.

11.19 SERIAL NUMBER VIEWING

Enter section **[4000]** to view the serial number of the control panel as well as the serial numbers of all modules on the combus.

For LCD Keypads: After entering section **[4000]**, the keypad will display the 8-digit serial number of the control panel. Use the **[▲]** and **[▼]** keys to scroll through the serial number of each module connected to the combus.

For Grafica Keypads: After entering section **[4000]**, the keypad will display the 8-digit serial number of the control panel. Press the center action key (**Next**) to scroll through the serial number of each module connected to the combus.

11.20 POWER SAVE MODE

(Default = enabled) When option **[4]** is enabled and the control panel is running on the backup battery (no AC), the control panel can set all keypads into a "sleep mode" or Power Save Mode. In Power Save Mode the keypad's backlight and LEDs are disabled until a key is pressed, an alarm occurs or an Entry Delay is triggered.

11.21 AUTO TROUBLE SHUTDOWN

(Default = 00) If, in a 24-hour period, a trouble occurs more than the number of times programmed in section **[3021]**, the control panel stops reporting the trouble. Enter a value (01 to 15, 00 = disabled) into section [3021]. Each trouble has its own counter. The counter is reset every day at midnight.

11.22 NO AC FAIL DISPLAY

(Default = disabled) When option **[6]** is enabled, the control panel will not display the AC Failure as a trouble. When an AC Failure occurs with this option enabled:
• the AC LED will extinguish
• the AC Failure report code will be reported.
• the trouble will not appear in the Trouble Display
• the keypad will not beep to indicate the trouble

11.23 MULTIPLE ACTION FEATURE

(Default = disabled) When option **[1]** is enabled, users will remain in the User Menu after entering their access code. This allows users to perform more than one action without having to re-enter their access code. With option **[1]** off, the control panel will exit the User Menu after every action.

11.24 SYSTEM LABELS

The existing label displayed on the LCD screen can be modified to suit the installation's needs. Each label contains a maximum of 16 characters. *For example, change section [0301] "ZONE 01" to "FRONT DOOR".* When System Labels are modified, the label is changed throughout the system. The labels can be changed to reflect the location of the device or area to enable users and installers to rapidly understand the information displayed on the LCD screen. To re-program the System Label, enter the desired section and use Table 6, Table 8 and Table 7 (page 34) to modify the label. To re-program the System Labels in Hebrew or Russian, enter the desired section and use Table 9 and Table 11 (Hebrew) or Table 10 and Table 11 (Russian) on page 35.

For instructions on how to enter letters and special characters for the Grafica keypad, refer to Grafica's Online Manual. A complete Grafica Online Manual is available on our web site at www.paradox.ca.

Zone Labels: Sections **[0301]** to **[0396]** represent Zones 01 to 96.	
Door Labels: Sections **[2301]** to **[2332]** represent Doors 01 to 32.	

Partition Labels:

Partition 1: **[3100]**	Partition 3: **[3300]**	Partition 5: **[3500]**	Partition 7: **[3700]**
Partition 2: **[3200]**	Partition 4: **[3400]**	Partition 6: **[3600]**	Partition 8: **[3800]**

Table 6: Keys

Press	Feature	Description
[STAY]	Insert Space	Inserts a blank space in the cursor's position
[FORCE]	Delete	Deletes the character or blank space found at the cursor's position
[ARM]	Delete Until the End	Deletes all characters and spaces to the right of the cursor and at the cursor's position
[DISARM]	Numeric or Alphanumeric	Toggles from numeric keys to alphanumeric keys and vice versa (see Table 7)
[BYP]	Lower or Upper Case	Toggles the case setting from lower to upper case and vice versa
[MEM]	Special Characters	The cursor will turn into a flashing black square. Enter the 3-digit number that represents the desired symbol (see Table 8 on page 35, Table 11 on page 35 and Table 12 on page 35).

Table 7: Numeric and Alphanumeric keys

Key	Numeric	Alphanumeric		
	Press key one time	Press key one time	Press key two times	Press key three times
[0]	0	---	---	---
[1]	1	A	B	C
[2]	2	D	E	F
[3]	3	G	H	I
[4]	4	J	K	L
[5]	5	M	N	O
[6]	6	P	Q	R
[7]	7	S	T	U
[8]	8	V	W	X
[9]	9	Y	Z	

Table 8: Special Characters Catalogue

032	048	064	080	096	112	128	144	160	176	192	208
	0	∂	P	`	p	Û	Ê	—	§	Ø	·
!	1	A	Q	a	q	Ù	È	Î	?	Ŀ	
"	2	B	R	b	r	Ú	É	Ì	ÿ	ʊ	°
#	3	C	S	c	s	Ü	Ë	í	↑	ß	
$	4	D	T	d	t	û	ê	Ï	↓	Ƥ	‚
%	5	E	U	e	u	ù	è	i	↵	ʃ	
&	6	F	V	f	v	ú	é	Ñ	∫	ʌ	÷
'	7	G	W	g	w	Ô	ë	ñ	Σ	⊓	
(	8	H	X	h	x	Ò	Å	Ñ̄	→|	↑	
)	9	I	Y	i	y	ó	Ä	–	↓	Υ	Ƚ
*	:	J	Z	j	z	–	å	β	↑	γ	\
+	;	K	[	k	{	â	â	µ	↓	Ã	χ
,	<	L	*	l	|	à	à	–	¶	¢	®
-	=	M	]	m	}	á	á	–	½	a	©
.	>	N	^	n	→	ä	ä	¼	⌐	ō	™
/	?	O	_	o	←	¿	A̲	¾	¾	o	≡

Table 11: Hebrew Special Characters Catalogue

032	048	064	080	096	112	128	144	160	176	192	208
	0	Й	P	у	p			א	]		
!	1	A	Q	a	q			ב	ס		
"	2	B	R	b	r			ג	ע		
#	3	C	S	c	s			ד	ף		
Ф	4	D	T	d	t			ה	פ		
%	5	E	U	e	u			ו	ץ		
&	6	F	V	f	v			ז	צ		
'	7	G	W	g	w			ח	ק		
(	8	H	X	h	x			ט	ר		
)	9	I	Y	i	y			י	ש		
*	:	J	Z	j	z			ך	ת		
+	I	K	Ш	k	И			כ			
,	<	L	П	l				ל			
-	=	M	Ж	m				ם			
•	>	N	^	n	→			מ			
/	Д	O	Щ	o	←			ן			

Table 9: Hebrew Keypad Letter Assignment

Key	Press key once	Press key twice	Press key three times
[1]	א	ב	ג
[2]	ד	ה	ו
[3]	ז	ח	ט
[4]	י	כ	ך
[5]	ל	ם	מ
[6]	ן	נ	ס
[7]	ע	ף	פ
[8]	ץ	צ	ק
[9]	ר	ש	ת

Table 12: Russian Special Characters Catalogue

032	048	064	080	096	112	128	144	160	176	192	208	224	240
	0	∂	P	`	p			Б	Ю	ч		Д	¼
!	1	A	Q	a	q			Г	Я	ш		Ц	⅓
"	2	B	R	b	r			Ё	б	ъ		Щ	½
#	3	C	S	c	s			Ж	в	ы	!!	Л	
$	4	D	T	d	t			З	Г	ь		ф	
%	5	E	U	e	u			И	ё	э		ш	
&	6	F	V	f	v			Й	ж	ю		щ	
'	7	G	W	g	w			Л	з	я	|	'	
(	8	H	X	h	x			П	и	«	‖	••	
)	9	I	Y	i	y			У	й	»	↑	~	
*	:	J	Z	j	z			Ф	к	ʺ	↓	é	
+	;	K	[	k	10			Ч	л	ʻʻ		Ç	
,	<	L	¢	l	12			Ш	М			ij	
-	=	M	]	m	15			Ъ	н	¿		☼	§
•	>	N	^	n	↵			Ы	п	ƒ			¶
/	?	O	_	o				Э	т	£	■	°	

Table 10: Russian Keypad Letter Assignment

Key	Press key once	Press key twice	Press key three times	Press key four times
[1]	А	Б	В	Г
[2]	Д	Е	Ё	Ж
[3]	З	И	Й	К
[4]	Л	М	Н	О
[5]	П	Р	С	Т
[6]	У	Ф	Х	Ц
[7]	Ч	Ш	Щ	Ъ
[8]	Ы	Ь	Э	Ю
[9]	Я			

12.1 INSTALLER CODE

SECTION [1000]

(Default: 000000) The Installer Code is used to enter the control panel's programming mode, which allows you to program all the features, options and commands of the control panel and any modules on the combus. The Installer Code is six digits in length where each digit can be any value from 0 to 9. To change the Installer Code:

1) Press and hold **[0]**
2) Enter **[INSTALLER CODE]**
3) Key in **[1000]**
4) Enter new 6-digit **[INSTALLER CODE]**

⚠️ *The Installer Code can program the User Code Options and the Partition Assignment, but cannot program the personal identification numbers.*

12.2 ACCESS CODE LENGTH

SECTION [3033]: OPTIONS [2] AND [3]

Access codes can be 1 to 6 digits in length. When programming access codes with less than 6 digits, press the **[ENTER]** key after entering the last digit. The control panel automatically removes the last 2 digits of the User Access Code if the length is changed from 6 digits to 4 digits. However, if the User Access Code Length is changed from 4 digits to 6 digits, the control panel adds 2 digits to the end by using the first 2 digits.
For example, if the User Access Code is 1234 and you switch to 6 digits, the code will become 123412.

Option		Description
[2]	**[3]**	
OFF	OFF	4-digit User Access Code (Default)
OFF	ON	6-digit User Access Code
ON	ON	Flexible User Access Code

12.3 SYSTEM MASTER CODE

SECTION [1001]

(Default: 123456) The Installer Code can change the User Code Options, Partition Assignment and Access Control Options, but cannot change the personal identification number (PIN). Each digit in the System Master Code can be any value from 0 to 9. To reset the System Master Code, refer to section 11.2 on page 32. With the System Master Code, a user can use any of the available arming methods with access to all partitions and can program all User Access Codes, User Options, Partition Assignments and Access Control Options.

12.4 PROGRAMMING ACCESS CODES

SECTIONS [1002] TO [1999]

(Default = all options are off) The control panel supports 998 User Access Codes. In sections **[1002]** to **[1999]**, the Installer Code can program the User Code Options, Partition Assignment and Access Control Options, but cannot program the personal identification numbers (PIN). To program the PINs, refer the users to the *System Manager's Manual*. The System Master Code or a user with the Master feature enabled can program the User Code Options, Partition Assignment, Access Control Options and User Labels using a different method of programming.

✂️ *If no partition assignment is selected, the User Access Code will only be able to activate PGMs.*

To program user labels, refer to the LCD Keypad System Manager's Manual or to the Grafica Graphic LCD Keypad Online Help.

Figure 12-1: Programming User Access Codes
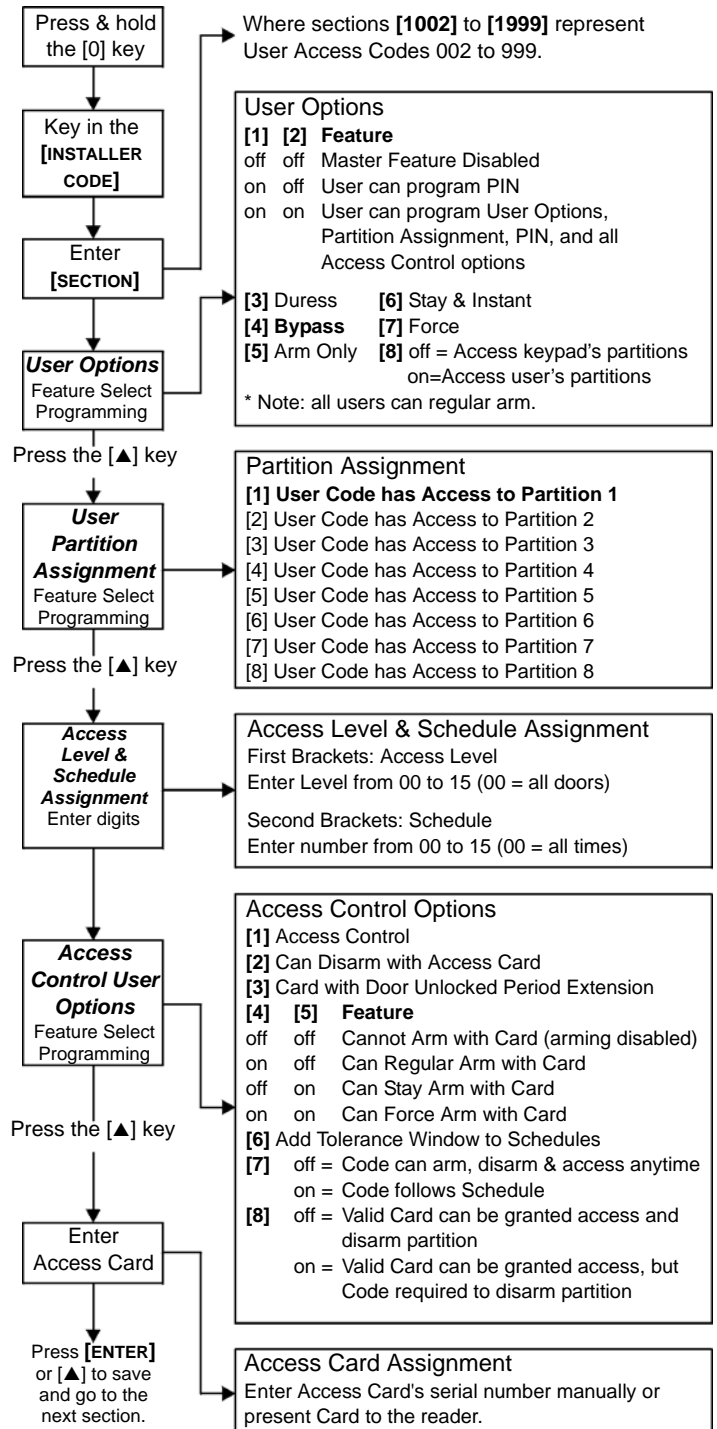
12.5 USER OPTIONS

SECTIONS [1002] TO [1999]: USER OPTIONS SCREEN, OPTIONS [1] TO [8]

The User Options define how each User Access Code can arm or disarm the partitions. All users can Regular Arm (see section 15.1) their assigned partitions, but only those with the Arm Only option disabled can disarm an assigned partition.

Enable or disable the options as required for each User Access Code as shown in Figure 12-1.

Option		Feature	Description
[1]	**[2]**		
OFF	OFF	Master disabled	User cannot create or modify other User Access Codes.
ON	OFF	Master enabled	User can create new User Access Codes with default options only, can program PINs and User Labels.
ON	ON	Full Master enabled	User can create or modify User Access Codes with the same partition assignment and program the User Options, Partition Assignment (can assign only partitions the Master Code has access to), Access Control features, PINs and User Labels.
[3]		Duress	A Duress enabled User Access Code can arm or disarm the partition and can immediately transmit a silent alarm to the Monitoring Station.
[4]		Bypass	User can program bypass entries as described in section 15.7.
[5]		Arm Only	User can arm assigned partitions, but cannot Disarm.
[6]		Stay or Instant Arm	User can Stay Arm or Instant Arm (see section 15.2) assigned partitions.
[7]		Force Arm	User can Force Arm assigned partitions (see section 15.4)
[8]		User Menu Access	Option **[8]** ON = User can access all its assigned partitions, regardless of the keypad's partition assignment. Option **[8]** OFF = User can only access the partitions assigned to both itself and the keypad.

12.6 PARTITION ASSIGNMENT

SECTIONS [1002] TO [1999]: ASSIGN AREA SCREEN, OPTIONS [1] TO [8]
Each of the 998 User Access Codes can be assigned to one or more partitions. Users can only arm, disarm and view the status of the partitions assigned to their User Access Codes. Select one or more of the partitions for each User Access Code as shown in Figure 12-1 on page 36.

If no partition assignment is selected, the User Access Code will ***only*** *be able to activate PGMs.*

12.7 ACCESS CONTROL

SECTIONS [1002] TO [1999]
In addition to the User Access Code options, the following options can be programmed when Access Control is enabled: Access Level, Schedule, Access Options and Access Card. For details on Access Control, see section 13 on page 38.

The System Master Code and User Access Codes with the Full Master feature enabled can also program the Access Level, Schedule, Access User Options, and Access Card using another method for programming.

⚠ ***The System Master Code has access to all doors all the time. Only the card's serial number and the choice of arming method can be changed. If the other options are changed, the System Master Code will revert to its original programming.***

12.7.1 Access Level Assignment

SECTIONS [1002] TO [1999]: LEVEL + SCHEDULE SCREEN
User Access Codes can only open the doors included in their assigned Access Level (see section 13.5 on page 38). In the first set of brackets, enter the two-digit Access Level number (00 to 15, 00 = unrestricted) to be assigned to that User Access Code.

12.7.2 Schedule Assignment

SECTIONS [1002] TO [1999]: LEVEL + SCHEDULE SCREEN
Schedules determine the hours, days and holidays that User Access Codes can open the doors in their assigned Access Level (see section 13.6). In

the second set of brackets, enter the two-digit Primary Schedule number (00 to 15, 00 = unrestricted) to be assigned to that User Access Code.

12.7.3 Access Control Options

SECTIONS [1002] TO [1999]: ACCESS OPTION SCREEN, OPTIONS [1] TO [8]
The Access Control Options define how each Access Card can arm or disarm the partitions. To arm the partition(s) assigned to the door, a valid card is presented to the reader twice within approximately 5 seconds while the door remains closed. For the card to be valid, it must be presented during its assigned Schedule, within its assigned Access Level and be assigned to the keypad's assigned partitions depending on the Door Access Mode (see section 13.10). Enable or disable the options as required for each Access Card as shown in Figure 12-1

A user that is not assigned to any partition, but has the access control user option [1] enabled ("Access Control"), can now gain access to an access control door by entering a code # (PIN) and then pressing the [acc] keypad button.

Option		Feature	Description
[1]		Access Control	**ON** = User's Access Control feature is enabled and user has access when the control panel's Access Control feature is enabled. **OFF** = User's Access Control feature is disabled, but the User Access Code remains unaffected. This can be used to disable a lost or stolen card **without** deleting the User Access Code.
[2]		Card can Disarm	Card can unlock Door and disarm assigned partitions. User Option [5]: Arm Only must be disabled for this feature to function.
[3]		Card with Extended Unlocked Period	Card uses the Door Unlocked Period Extension feature (see DGP2-ACM1P's Reference & Installation Manual).
[4]	**[5]**		
OFF	OFF	Arming Disabled	Cannot arm partitions
ON	OFF	Regular Arm	Card can Regular Arm.
OFF	ON	Stay Arm	Card can Stay Arm.
ON	ON	Force Arm	Card can Force Arm.
[6]		Add Tolerance Windows to Schedules	Card and Code use the Schedule Tolerance Windows (see section 8.3.3 on page 26 and section 13.9 on page 39).
[7]		Code follows Schedule	**ON** = Code is only valid during assigned Schedule (see section 12.7.2). **OFF** = Code is valid at all times.
[8]		Card to Unlock and Code to Disarm	**ON** = A door contact must be installed on the Door, the Door must be assigned to a zone (section 4.1) and the zone defined as an Entry Delay. A valid Card can unlock the Door, but cannot disarm the partition. If the partition is armed, the Entry Delay is triggered and a User Access Code **must** be entered to disarm the area. User Option [5]: Arm Only and Access Control Option [2]: Card can Disarm must be disabled for this feature to function. **OFF** = A valid Card can unlock the Door and disarm the partition.

12.7.4 Access Card Assignment

SECTIONS [1002] TO [1999]: ACCESS CARD screen
The Access Card is activated by assigning its serial number to the User Access Code. Digiplex NE supports 26-bit Wiegand proximity cards and readers (recommended: Position Technology's CR-R880-A reader and CR-R700 Series cards). Enter the serial number manually or present the Access Card to the keypad's reader and its serial number will register automatically.

Access Control defines the days and times people are allowed to enter and exit a site. An Access Control door uses a reader, an Access Control Module, a Request-for-Exit motion detector, a door contact and an electronic door strike to unlock the door for authorized personnel at authorized times. For details on connecting these devices, refer to the Digiplex/DigiplexNE Access Control Module Reference & Installation Manual.

Figure 13-1: Typical Access Control Installation*

1 = Request for Exit Device (Paradoor)
2 = Door Contact
3 = Reader (PosiProx or PosiPIN) on other side of the wall
4 = Access Control Module (DGP2-ACM1P)
5 = Locking Device
6 = Control Panel (DGP-NE96)
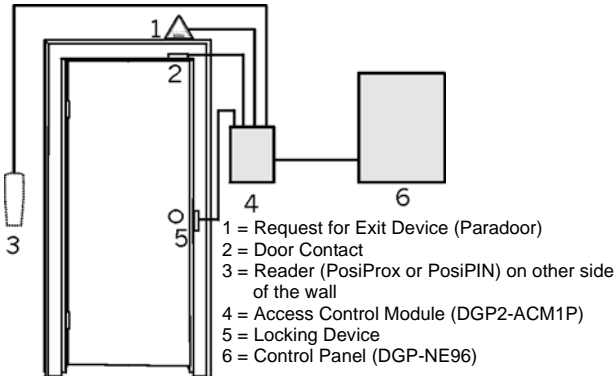
Each person authorized to access the protected area is issued a card. The card is assigned to a User Access Code programmed with an Access Level (see section 13.5) and a Schedule (see section 13.6). When a card is presented to the reader, the control panel determines whether or not to unlock the door depending on if the card is allowed to open that door and if the card is permitted at that particular time and day.

* UL Note: For UL Listed systems, the DGP2-641AC keypad shall be used for Access Control systems. The keypad is only compatible with the PosiProx (CR-R880-A) reader.

13.1 COMMON ACCESS CONTROL TERMS

Access Alarm: An audible or silent warning generated by the reader to indicate that an Access Door is open past the programmed time allowed or that it was opened without an "Access Granted" or "Request for Exit" signal. This event is logged in the Event Buffer, but cannot be reported.

Access Card: A tag assigned to a User Access Code used to identify the user to the Access Control system. By presenting the tag to a reader, the system can verify whether the tag is valid.

Access Denied: An Access Control term for the system's refusal to admit access through an Access Door.

Access Granted: An Access Control term for the system permitting admission through a protected door.

Burglar Alarm: An audible or silent warning sent to the control panel indicating that an armed zone in the DigiplexNE security system has been breached. This event is logged in the Event Buffer and can be reported to a Monitoring Station.

Door Left Open: Each Access Door is programmed with a period of time it is allowed to remain open. Once the door has been open past this time limit, an Access Alarm will be triggered.

Forced Door: An Access Door was opened without an "Access Granted" or "Request for Exit" signal, a silent or audible Access Alarm can be triggered.

Reader: An Access Control device (Posiprox CR-R880-A) normally located near an Access Door that serves to relay the information from an Access Card presented to it to the control panel.

Request for Exit: When a REX device (Paradoor 460) installed above an Access Door within a protected area detects movement, it sends a request-for-exit signal to the panel.

Valid Card: An Access Card presented to a reader during its assigned Schedule and within its assigned Access Level.

13.2 PROGRAMMING OVERVIEW

Several features and options for Access Control are available in the DigiplexNE system. Some are programmed through the control panel and are explained in this manual. Other features and options are explained in the Access Control Module Reference & Installation Manual. The following is the **MINIMUM** required to program Access Control:

Step 1: Enable Access Control in section **[3038]** option **[1]**
Step 2: Assign the Doors in sections **[2201]** to **[2232]**
Step 3: Create the Access Levels in sections **[2601]** to **[2615]**
Step 4: Create the Schedules in sections **[2401]** to **[2432]**
Step 5: Set the Holidays in sections **[2701]** to **[2712]**
Step 6: Program User Access Codes (see section 12 on page 36)
Step 7: Program the Access Control Modules (see Modules Programming Guide)

13.3 ENABLE ACCESS CONTROL

SECTION [3038]: OPTION [1]
(Default = disabled) When option **[1]** is enabled, the Access Control feature is activated. The control panel and the doors must be programmed (see section 13.2).

13.4 DOOR NUMBERING

SECTIONS [2201] TO [2232]
Each door to be monitored and controlled requires an Access Control Module (DGP2-ACM1P). The keypad or module is assigned to the door through the its serial number in sections **[2201]** to **[2232]**. DigiplexNE supports up to 32 Doors.

13.5 ACCESS LEVELS

SECTIONS [2601] TO [2615]
Access Levels determine which Doors a user can access. Each Access Level is a combination of the Doors from sections [2201] to [2232] (see section 13.4). Access Levels are assigned to the users through their User Access Codes (refer to the System Manager's Manual).
For example, if the options [1], [2] and [3] are enabled in the First Screen of section [2601], any User assigned to Level 01 will only have access to doors 01, 02, and 03.
Access Levels from 01 to 15 are programmed in sections **[2601]** to **[2615]** respectively. Each section contains four screens of 8 options representing the 32 Doors. Level 00 allows the user access to all the Doors. For each Access Level enable or disable the options as required:

Section	Options [1] to [8] represent:			
	1st Screen Doors	2nd Screen Doors	3rd Screen Doors	4th Screen Doors
Level 01: **[2601]**	01 to 08	09 to 16	17 to 24	25 to 32
to				
Level 15: **[2615]**	01 to 08	09 to 16	17 to 24	25 to 32

13.6 ACCESS SCHEDULES

SECTIONS [2401] TO [2432]
The Access Levels described in section 13.5 determine the Doors a user can have access to and the Schedules determine when the user can have access to those Doors.

Each Schedule consists of two programmable time periods called Interval A and Interval B. For each Interval determine when users will have access by programming the Start Time in the first screen and the End Time in the second screen according to the 24hr. clock (i.e. 9PM = 21:00). The Intervals are only valid during the days programmed in the third screen. Option [8] in the third screen represents the programmed holidays (see section 13.8). When option [8] is enabled, users have access between the

Start Time and End Time during the holidays. An Interval cannot cross into another day (overnight). Schedules are assigned to the users through their User Access Codes (refer to the System Manager's Manual).

For example, program Schedule 001 in section [2401]:
*A = Start time **09:00**, End time **17:00**, options **2**, **3**, **4**, **5**, and **6** enabled*
*B = Start time **10:00**, End time **17:00**, options **1**, **7**, and **8** enabled*
Then, any User Access Code with this Schedule assigned will have access Monday to Friday from 9AM to 5PM and on Saturday, Sunday and Holidays from 10AM to 5PM.

Primary Schedules 001 to 015 are programmed in sections **[2401]** to **[2415]** respectively. Secondary Schedules 016 to 032 are programmed in sections **[2416]** to **[2432]** respectively. For each Schedule enter the Start Time, End Time and enable or disable the options as required for each Interval. Schedule 000 allows the user access at all times. Only Primary Schedules can be assigned to User Access Codes. Secondary Schedules are used as Backup Schedules (see section 13.7).

Section		Start Time 1st Screen	End Time 2nd Screen	Days 3rd Screen
Schedule 001: **[2401]** to Schedule 032: **[2432]**	A:	set as per 24hr. clock	set as per 24hr. clock	**[1]** = Sunday (S) **[2]** = Monday (M) **[3]** = Tuesday (T) **[4]** = Wednesday (W) **[5]** = Thursday (T) **[6]** = Friday (F) **[7]** = Saturday (S) **[8]** = Holidays (H)
	B:	set as per 24hr. clock	set as per 24hr. clock	

13.7 BACKUP SCHEDULES

SECTION [2501] TO [2532]
When an Access Card or User Access Code is used at an Access Door, the control panel verifies whether it was used during its assigned Primary Schedule. If the Primary Schedule is linked to another Schedule, it will verify the linked Schedule and any Schedule linked to it. The control panel will verify up to 8 linked Schedules, one after another, until it determines whether the card or code is valid. Each Schedule (Primary or Secondary) from 001 to 032 can be linked to another Schedule in sections **[2501]** to **[2532]** respectively. In each section enter the 3-digit Schedule number of the Schedule to be linked with it.

For example, if Schedule 001 is linked to Schedule 005 and Schedule 005 is linked to Schedule 030, then the control panel will verify Schedules 001, 005 and 030.

13.8 HOLIDAY PROGRAMMING

SECTIONS [2701] TO [2712]
Holiday Programming identifies the days that are considered holidays in the Schedules. When option [8] is enabled in sections [2401] to [2432], access is permitted during the holidays. Each section from **[2701]** to **[2712]** represents a month from January to December respectively. Each section includes four groups of five to eight options that represent the days of the month. Enable the options representing the holidays.

For example, if [1] and [2] are enabled in the first screen in section [2701], then January 1 and 2 are designated as holidays.

13.9 SCHEDULE TOLERANCE WINDOW

SECTION [3039]
The Schedule Tolerance Window lengthens the assigned Schedule of some users. User Access Codes with *Add Tolerance Windows to Schedules* enabled have the number of minutes programmed in **[3039]** added before and after their Schedule. This feature can be used instead of creating Schedules for each shift and each shift's supervisor by assigning the supervisors to their respective shift's Schedule and enabling Add Tolerance Windows to Schedules on their User Access Codes. Enter any value between 001 and 255 (default = 000) to determine Schedule Tolerance Window in minutes.

For example, if 060 is programmed in section [3039], users with Add Tolerance Windows to Schedules enabled will have their Schedule

extended by 1 hour before and 1 hour after their assigned Schedule (see Figure 13-2).

Figure 13-2: Example of a Schedule Tolerance Window

User's assigned Schedule is 9AM to 5PM. When *Add Tolerance Windows to Schedules* is enabled for the user, the user has access from 8AM to 6PM.
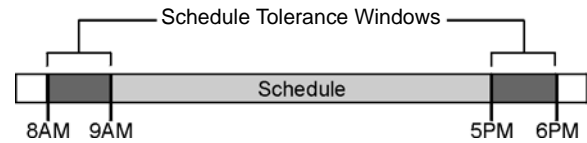
*The Schedule Tolerance Window applies to Access Schedules only (section 13.6). The Schedule Tolerance Window does **not** apply to the Arming and Disarming Report Schedules (section 8.3.1 and section 8.3.2).*

13.10 DOOR ACCESS MODE

SECTION [2251] TO [2282]: OPTION [1]
Each Access Door can be assigned to one or more partitions in the security system and each user can be assigned to one or more partitions. This means that the actions performed by the user will be directly linked to the partition(s) assigned to that door. Doors 01 to 32 are programmed in sections **[2251]** to **[2282]** respectively. For each door enable or disable the option as required:

Option		Feature
[1]	ON	**"OR" Access Door** The Access Door grants access or permits arming or disarming to users assigned to **at least one** of the door's partitions. An "OR" door will arm or disarm only the partitions that it has in common with the users.
[1]	OFF	**"AND" Access Door** The Access Door grants access or permits arming **only** to users assigned to **all** the door's assigned partitions.

13.11 CODE ACCESS

SECTION [2251] TO [2282]: OPTION [2]
Code Access can allow access to an Access Door by entering a valid User Access Code and pressing the **[ACC]** key on a DGP2-641 LCD Keypad instead of using the Access Card. The control panel will verify the User Access Code's validity in the same way it would verify the Access Card (i.e. through its assigned Access Level and Schedule). Doors 01 to 32 are programmed in sections **[2251]** to **[2282]** respectively. For each door enable or disable the option as required:

Option		Feature
[2]	ON	**[ACC]** key enabled
[2]	OFF	Access with Card only

This option is not available for LED and Grafica Keypads.

13.12 CARD AND CODE ACCESS

SECTION [2251] TO [2282]: OPTION [3]
For higher security areas, the Access Door can be programmed to require a user to present a valid Access Card and then enter the same user's valid code before access is granted. The Access Card must be presented to, and the user code must be entered on, a PosiPIN™ Proximity Card Reader and Keypad (CR-R885-BL) that is connected to an Access Control Module (DGP2-ACM1P). PosiPIN and the Access Control Module must be configured to allow access of this type. Please refer to the PosiPIN Installation and Operating Instructions, and to the Access Control Module Reference & Installation Manual for programming instructions. Doors 01 to 32 are programmed in sections **[2251]** to **[2282]** respectively. For each door enable or disable the option as required:

Option		Feature
[3]	**ON**	Access Card AND User Access Code required
[3]	**OFF**	Access Card OR User Access Code

*When option [3] is enabled, the Access Card must be presented **before** the User Access Code is entered.*

13.13 SKIP EXIT DELAY WHEN ARMING WITH ACCESS CARD

SECTION [3038]: OPTION [6]

(Default = disabled) When an Access Card is presented to a reader twice within approximately 5 seconds with the door closed, some or all the partitions (see section 13.10) assigned to the Access Door can arm with or without starting the Exit Delay. This feature is useful when the reader is outside the partition so the partition(s) can be armed immediately.

Option		When arming with an Access Card:
[6]	**ON**	The Exit Delay is cancelled
[6]	**OFF**	The Exit Delay is triggered

13.14 RESTRICT ARMING ON DOOR

SECTION [2251] TO [2282]: OPTION [4]

With option **[4]** ON, the control panel can prevent an Access Card from arming the partition(s) assigned to the door even if the Access Card is programmed to permit arming.

13.15 RESTRICT DISARMING ON DOOR

SECTION [2251] TO [2282]: OPTION [5]

With option **[5]** ON, the control panel can prevent an Access Card from disarming the partition(s) assigned to the door even if the Access Card is programmed to permit disarming.

13.16 DOOR ACCESS DURING CLOCK LOSS

SECTION [3038]: OPTION [8]

(Default = disabled) If the system registers a Clock Loss Trouble, the control panel will no longer recognize the Schedules. Only the System Master Code and User Access Codes with the *Master* feature enabled can reset the clock when option **[8]** is enabled. To avoid Clock Loss, a RTC is incorporated in the control panel. Enable or disable the option as required:

Option		Until the Clock is reset, access can be granted to:
[8]	**ON**	The System Master Code or User Access Codes with Full Master or Schedule 00 enabled
[8]	**OFF**	All users regardless of their programmed Schedules

13.17 BURGLAR ALARM ON FORCED DOOR OR DOOR LEFT OPEN

SECTION [3038]: OPTION [5] (FORCED DOOR)
SECTION [3038]: OPTION [7] (DOOR LEFT OPEN)

(Default = disabled) When option **[5]** and/or **[7]** is enabled and an Access Door is forced open or left open, it can send a signal to the control panel to trigger the burglar alarm and to report to the Monitoring Station. The burglar alarm is generated instantly regardless of the zone's definition (i.e. entry delay is ignored). Also, see "Log Door Forced Open Restore In Event Buffer" on page 40 and see "Log Door Left Open Restore In Event Buffer" on page 40.

For these features to function, the following must be done:
• Install a door contact and connect it to the door's Access Control Module
• Assign the door's Access Control Module to a zone (see "Zone Programming" on page 12)
• Enable option **[5]** in section **[3038]**: Burglar Alarm on Forced Door
• Enable option **[7]** in section **[3038]**: Burglar Alarm on Door Left Open

13.18 LOGGING ACCESS CONTROL EVENTS

13.18.1 Log Request For Exit In Event Buffer

SECTION [3038]: OPTION [2]

(Default = disabled) When a Request-for-Exit (REX) device registers movement at the door, a REX event is generated (see section 13.1). When option **[2]** is enabled, the control panel can record the REX events generated from all the Doors in the Event Buffer, but cannot report these events to the Monitoring Station. The events can be viewed by entering the *Event Record Display* (see section 15.10).

Since REX events can occur often, the Event Buffer may fill up quickly.

13.18.2 Log Door Left Open Restore In Event Buffer

SECTION [3038]: OPTION [3]

(Default = disabled) Door Left Open Restore means that an Access Door closed after it was left open beyond a programmed Door Left Open Interval (refer to the Digiplex/DigiplexNE Access Control Module Reference & Installation Manual). When option **[3]** is enabled, the Door Left Open Restore event can be recorded in the Event Buffer. These events cannot be reported to the Monitoring Station, but can be viewed by entering the *Event Record Display* (see section 15.10).

13.18.3 Log Door Forced Open Restore In Event Buffer

SECTION [3038]: OPTION [4]

(Default = disabled) Door Forced Open Restore means that an Access Door's door contact closes after it was opened without the use of a valid Access Card or User Access Code or receiving a Request for Exit signal. When option **[4]** is enabled, the Door Forced Open Restore event can be recorded in the Event Buffer. This event cannot be reported to the Monitoring Station, but it can be viewed by entering the *Event Record Display* (see section 15.10).

WINLOAD SOFTWARE

14.1 PANEL IDENTIFIER

SECTION [3011]

(Default = 0000) The Panel Identifier identifies the control panel to WinLoad before initiating upload or download. The control panel will verify if the Panel Identifier in WinLoad is the same. If the codes do not match, the control panel will not establish communication. Therefore, program the same Panel Identifier into both the control panel and WinLoad. Enter the desired 4-digit hexadecimal number into section **[3011]**.

14.2 PC PASSWORD

SECTION [3012]

(Default = 0000) The PC Password identifies the computer running the WinLoad software to the control panel before beginning the download process. Program the same PC Password into both the control panel and WinLoad. If the passwords do not match, WinLoad will not establish communication. Enter the desired four-digit hexadecimal number into section **[3012]**.

14.3 PC TELEPHONE NUMBER

SECTION [3010]

The control panel dials this number to communicate with a computer using WinLoad. Enter any digit from 0 to 9 and any special keys or functions (see Table 3, *Special Telephone Number Keys,* on page 26) up to a maximum of 32 digits into section **[3010]**.

14.4 CALL BACK FEATURE

SECTION [3037]: OPTION [1]

(Default = disabled) The Call Back Feature provides additional security. When option **[1]** is enabled and a computer using WinLoad attempts to communicate with the control panel, the control panel hangs up and calls the computer back to re-verify identification codes and re-establish communication. When the control panel hangs up, WinLoad automatically goes into *Wait For Call Mode (see WinLoad's Online Help)*, ready to answer when the control panel calls back. The PC Telephone Number must be programmed (see section 14.3).

14.5 CALL WINLOAD

Dial the PC Telephone Number programmed in section **[3010]** to communicate with WinLoad. The control panel and WinLoad verify that the Panel Identifier and the PC Password match before establishing communication.

WinLoad must be in Wait For Call Mode (see WinLoad's Online Help).

For LCD Keypads: Press and hold the **[0]** key, enter your **[INSTALLER CODE]** and then press **[FORCE]**.

For Grafica Keypads: Press and hold the **[0]** key, enter your **[INSTALLER CODE]**, press the center action key (**Options**), highlight **Call WinLoad** and then press the left action key (**Select**).

14.6 ANSWER WINLOAD

To perform on-site uploading/downloading, connect the computer directly to the control panel using an ADP-1 line adapter. In WinLoad set *Dialing Condition* to *Blind Dial*. Program the PC telephone number in WinLoad and follow the ADP-1 Adapter's instructions. When the computer has dialed...

For LCD Keypads: Press and hold the **[0]** key, enter the **[INSTALLER CODE]** and press **[ARM]** to manually answer WinLoad from the panel. Press **[DISARM]** to hang up.

For Grafica Keypads: Press and hold the **[0]** key, enter the **[INSTALLER CODE]**, press the center action key (**Options**), highlight **Answer WinLoad**

and then press the left action key (**Select**). To hang up, highlight **Cancel Communication** and then press the left action key (**Select**).

14.7 ANSWERING MACHINE OVERRIDE DELAY

SECTION [3052]

(Default = 008) If WinLoad will be used to communicate with an installation that uses an answering machine or service, program the Answering Machine Override. If the installation is called back within the programmed delay period, the Answering Machine Override will bypass the answering machine or service by picking up the line on the first ring. Also, see section 14.8.

In section **[3052]** program a value (00 to 15 X 4 seconds, 00 = disabled) representing the delay period the control panel will wait between the first and second call.

To use:
Step 1: Using WinLoad, call the installation and on the second ring press the **[ENTER]** key on the keyboard to hang up or hang up manually.
Step 2: After hanging up, WinLoad will immediately call the installation back or call the site back manually.

For example, an answering machine is set to answer after three rings and section [3052] is programmed with 10 (10 x 4 = 40 seconds). During the first call with WinLoad, wait two rings and press [ENTER]. *WinLoad will immediately call the site back. If the second call is made within 40 seconds, the control panel will pick up the line on the first ring. If it takes more than 40 seconds, the control panel will not answer on the first ring and the answering machine will answer after three rings.*

14.8 RING COUNTER

SECTION [3051]

(Default = 008) The Ring Counter represents the number of rings the control panel will wait before picking up the line. If the line is not answered after the number of programmed rings, the control panel answers the call. If more than 10 seconds pass between each ring, the Ring Counter resets. Also, see section 14.7. Enter any value between 01 to 15 (00 = disabled) to determine the number of rings.

14.9 EVENT BUFFER TRANSMISSION

SECTION [3037]: OPTION [2]

(Default = disabled) Once the Event Buffer contains 1998 events since the last upload, the control panel makes two attempts to establish communication with a computer using WinLoad by calling the PC Telephone Number programmed in section **[3010]**. WinLoad must be in *Wait To Dial* mode. When communication is established, the control panel uploads the contents of the Event Buffer to WinLoad. If communication is interrupted before completing transmission or communication is not established after two attempts, the control panel wait until the Event Buffer receives another 1998 events before attempting Event Buffer Transmission. When the Event Buffer is full, each subsequent new event will erase the oldest event in the buffer. The Event Buffer can hold 2048 Events.

15.1 REGULAR ARMING

This method is used for the everyday arming of the system. All zones within the partition must be closed to arm the system. The system can also be Regular Armed by using a One-touch Feature (see section 6.15) or a Keyswitch (see section 5.4.3). All users are able to Regular Arm the partition(s) assigned to their User Access Codes. Refer to *How to Arm* on page 42 for information on how to Regular Arm the system.

15.2 STAY ARMING

Stay Arming partially arms the partition to permit the user to remain in the partition. *Stay Zones* (see section 4.5.3) will not arm when Stay Arming. Partitions can also be armed by the Stay Arm One-touch Feature (see section 6.15) or a Keyswitch (see section 5.4.4). Only User Access Codes with the *Stay and Instant Arm* option enabled can Stay Arm a partition. *For example, arm the doors and windows without arming the motion detectors.* Refer to *How to Arm on page 42* for information on how to Stay Arm the system.

15.2.1 Stay Arming with Delay

Stay Arming with Delay functions like Stay Arming except armed zones are programmed with an *Entry Delay Timer* (see section 4.3.14). If a zone is triggered, the delay starts allowing the user time to disarm the partition(s).

15.3 INSTANT ARMING

Similar to *Stay Arming*, Instant Arming partially arms the partition to permit the user to remain in the partition, but all Delay zones become Instant zones. Partitions can also be armed by the Instant One-touch Feature (see section 6.15) or a Keyswitch (see section 5.4.6). Only User Access Codes with the *Stay and Instant Arm* option enabled can Instant Arm a partition. Refer to *How to Arm* on page 42 for information on how to Instant Arm the system.

15.3.1 Instant Arming with Delay

Instant Arming with Delay functions like Instant Arming except armed zones are programmed with an *Entry Delay Timer* (see section 4.3.14). If a zone is triggered, the delay starts allowing the user time to disarm the partitions.

15.4 FORCE ARMING

Force Arming allows the user to arm a partition when Force zones are open (see section 4.5.4). Once the open zone in an armed partition is closed, the system will then arm it as well. This feature is commonly used when a motion detector is protecting an area that is occupied by a keypad. The system can also be Force Armed by using a One-touch Feature (see section 6.15) or a Keyswitch (see section 5.4.5). Only User Access Codes with the *Force Arm* option enabled can Force Arm a partition.

For example, during Force arming the motion detector remains unarmed until the user exits the area. The system will then arm the motion detector.

Refer to *How to Arm on page 42* for information on how to Force Arm the system.

15.5 HOW TO ARM

The following section details how to arm the system using an LCD or Grafica keypad.

For LCD Keypads: To arm, users:
1) Enter their **[ACCESS CODE]**.
2) Press the key corresponding to the desired arming method (see Table 13 on page 42). If the users have access to more than one partition, they can press the key(s) corresponding to the desired partition(s) or press **[0]** to arm all their assigned partitions.

For Grafica Keypads: To arm, users...
1) Enter their **[ACCESS CODE]**.

2) Using the scroll keys, highlight the desired arming method (see Table 13 on page 42) and then press the center action key (**Ok**). If the users have access to more than one partition, proceed to step 3.
3) Highlight either **Arm All Areas** or **Select Area(s)** and then press the center action key (**Ok**). If the user(s) selected the Select Area(s) method, follow steps 4 and 5.
4) Highlight a partition you wish to arm and then press the left action key (**Select**). Repeat this step for any additional partition.
5) Press the center action key (**Arm**).

Table 13: Arming Methods

Arming Method	LCD	Grafica
Regular	[ARM]	(Arm System)
Stay	[STAY]	(Stay Arm)
Instant	[5]	(Instant Arm)
Force	[FORCE]	(Force Arm)

15.6 DISARMING

All users can disarm, **except** users with Arm Only (see section 12.5) enabled on their User Access Codes. Users can only disarm the partitions assigned to their User Access Codes. The Stay or Instant Armed partitions can also be Disarmed by using a One-touch Feature. To disarm, users...

For LCD Keypads:
1) Enter through a designated entry. The Entry Delay Timer will begin.
2) Enter their **[ACCESS CODE]**.
3) Press the **[DISARM]** key. If the users have access to more than one partition, they can press the key corresponding to the desired partition or press **[0]** to disarm all their assigned partitions.

For Grafica Keypads:
1) Enter through a designated entry. The Entry Delay Timer will begin.
2) Enter their **[ACCESS CODE]**.
3) Using the scroll keys, highlight **Disarm** and then press the center action key (**Ok**). If you have access to more than one area, proceed to step 4.
4) Highlight either **Disarm All Areas** or **Select Area(s)** and then press the center action key (**Ok**). If you selected the Select Area(s) method, follow steps 5 and 6.
5) Highlight the area you wish to disarm and then press the left action key (**Select**). Repeat this step for any additional area.
6) Press the center action key (**Disarm**).

15.7 BYPASS PROGRAMMING

Bypass Programming allows users to program the security system to ignore specified zones the next time the partition is armed. To bypass a zone, the zone must have the *Bypass* option enabled, the User Access Code must have the *Bypass* option enabled, and the zone must be within the User Access Code's partition assignment. To Bypass, users...

For LCD Keypads:
1) Enter their **[ACCESS CODE]**.
2) Press the **[BYP]** key.
3) Enter the zone's 2-digit number or use the [▲] and [▼] keys and press the **[BYP]** key when the zone appears on-screen.
4) Press **[ENTER]** key to exit.

For Grafica Keypads:
1) Enter their **[ACCESS CODE]**.

2) Using the scroll keys, highlight **Bypass** and then press the center action key (**Ok**).
3) Highlight the zone that you wish to bypass and then press the left action key (**Bypass**). Repeat this step for any additional zone.
4) Press the right action key (**Back**) to save the data.

Users can also activate *Bypass Recall*. Bypass Recall reinstates all the zones that were bypassed the last time the partition(s) assigned to the User Access Code were armed. To activate Bypass Recall, users:

For LCD Keypads:
1) Enter their **[ACCESS CODE]**.
2) Press the **[BYP]** key.
3) Press the **[MEM]** key.
4) Press **[ENTER]** key to exit.

For Grafica Keypads:
1) Enter their **[ACCESS CODE]**.
2) Using the scroll keys, highlight **Bypass** and then press the center action key (**Ok**).
3) Highlight **Bypass Recall** and then press the center action key (**Ok**).

15.8 CHIME ZONES (UL NOTE: NOT TO BE USED FOR PERIMETER PROTECTION)

The keypads can emit rapid, intermittent beeps whenever designated zones within their assigned partitions open or when they open during a time period. The instructions that follow are for LCD Keypads, for Grafica keypads, refer to the Grafica Online Manual, which can be downloaded for free from our Web site at www.paradox.ca.

For LCD keypads:
To program a Chime Zone, users:
1) Enter their **[ACCESS CODE]**.
2) Press the **[9]** key.
3) Press the **[1]** key.
4) Enter the zone's 2-digit number or use the [▲] and [▼] keys to scroll the list and press the **[ACC]** key when the zone appears on-screen.
5) Press **[ENTER]** key to save.

To program a time period when the Chime Zones are activated, users:
1) Enter their **[ACCESS CODE]**.
2) Press the **[9]** key.
3) Press the **[2]** key.
4) Enter the time that keypads will **start** beeping when Chime Zones are opened according to the 24-hour clock (i.e. 9PM is 21:00).
5) Enter the time that keypads will **stop** beeping when Chime Zones are opened according to the 24-hour clock (i.e. 9PM is 21:00).
6) Press **[ENTER]** key to save.

15.9 KEYPAD SETTINGS

The keypad's settings can be modified to suit the user's needs. The instructions that follow are for LCD and LED keypads only, for Grafica keypads, refer to the Grafica Online Manual, which can be downloaded for free from our Web site at www.paradox.ca.

For LCD Keypads:
• Scrolling Speed is how long the messages stay on the LCD screen before moving to the next message.
• Backlight is the illumination behind the keys and the screen.
• Contrast is how dark the characters appear on the LCD screen.

To change the settings:
1) Enter the **[USER ACCESS CODE]**.
2) Press **[6]**.
3) Press **[1]**: Scrolling Speed from 0 to 10 (10 = slowest)
   Press **[2]**: Backlight from 0 to 7 (7 = brightest)
   Press **[3]**: Contrast from 0 to 4 (4 = most contrast)
4) Use the **[▲]** and **[▼]** keys to increase or decrease the numbers.
5) Press **[ENTER]**.
6) Press **[CLEAR]** to exit or the **[▼]** key to move to the next setting.

For LED Keypads:
Modify Backlight only:
1) Enter an **[ACCESS CODE]**.
2) Press the **[6]** key.
3) Use the [▲] and [▼] keys to increase or decrease the illumination. The range is between zero and seven with seven as the brightest (**[10]** LED = zero).

15.10 EVENT RECORD DISPLAY

The Event Record Display displays the user-initiated events that occurred in the system as well as any alarms or troubles. The events from all the partitions can scroll on the screen or can be viewed by partition. The most recent event is displayed first. The Event Record Display can only be viewed through an LCD or Grafica keypad. To view the events:

For LCD Keypads:
1) Enter a User Access Code
2) Press the **[7]** key
3) Press

Key	Displays:	Key	Displays:
[0]	All partitions	**[5]**	Partition 5
[1]	Partition 1	**[6]**	Partition 6
[2]	Partition 2	**[7]**	Partition 7
[3]	Partition 3	**[8]**	Partition 8
[4]	Partition 4		

4) Press the **[▼]** key to view subsequent events
5) Press the **[CLEAR]** key to exit

Change the order that the Event Record screens appear by pressing the **[7]** key. If you already know the number of the event you want to view, press the **[MEM]** key and then enter the event's number.

For Grafica Keypads:
1) Enter their **[ACCESS CODE]**.
2) Using the scroll keys, highlight **View Status** and then press the center action key (**Ok**).
3) Highlight **View Events** and then press the center action key (**Ok**). If the event list appears on the screen go to step 6.
4) Highlight **View All Areas** or **Select Area(s)** and then press the center action key (**Ok**).
5) If you selected Select Area(s) in step 4, highlight the area you wish to view and then press the center action key (**Ok**).
6) Use the scroll keys to scroll through the events.

15.11 SCROLL RESTART (LCD KEYPAD ONLY)

The keypad scrolls through the status of its assigned partitions. Press the **[CLEAR]** key at any time to return to the beginning of the sequence.

15.12 TROUBLE DISPLAY

When the system experiences problems or is tampered with, the Trouble Display appears on the LCD screen. Keypads will only display troubles that occur in their assigned partition(s). Potential troubles have been sorted into eight groups. The Group headings are listed below with a brief explanation of the potential troubles sorted within each group. To view:

To view the Trouble Display on LCD or LED Keypads:
Step 1: Press the **[TRBL]** key
Step 2: **For LEDs:** Press the Numerical Symbol corresponding to the Group heading to view the specific trouble.
For LCDs: Press the number representing the trouble and press the **[▲]** and **[▼]** keys to view the specific trouble.

To view the Trouble Display on Grafica Keypads:
Step 1: Enter your **[ACCESS CODE]**.
Step 2: Using the scroll keys, highlight **Trouble** and then press the center action key (**Ok**). The trouble(s) will appear by Trouble Group.

Step 3: If more than one Trouble Group appears, highlight the desired group before pressing the center action key (**View**) to view the specific trouble.

Trouble	Description
GROUP [1]: SYSTEM	
[1] AC Failure	Power failure detected. The system is running on the backup battery.
[2] Battery Trouble	The backup battery is disconnected, needs to be recharged or replaced.
[3] AUX Current Limit	Devices connected to AUX have exceeded current limits (1.1A). The Auxiliary Output will shutdown until the trouble is corrected.
[4] Bell Current Limit	The bell or siren has exceeded current limits (3A). The Bell/Siren Output will shutdown until the trouble is corrected.
[5] Bell Absent	The bell or siren is not connected. When the bell output is not used, connect a 1kΩ resistor across the bell output.
[6] ROM Check Error	The control panel registers a data memory error. Contact distributor for replacement.
[7] RAM Check Error	The control panel registers a work memory error. Contact distributor for replacement.
GROUP [2]: COMMUNICATOR	
[1] TLM1	The control panel is unable to access the main telephone line.
[2] Fail to Communicate 1 **[3]** Fail to Communicate 2 **[4]** Fail to Communicate 3 **[5]** Fail to Communicate 4	The control panel tried all assigned telephone numbers and failed to contact the Monitoring Company.
[6] Fail to Communicate PC	The control panel is unable to communicate with the WinLoad software.
GROUP [3]: MODULES	
[1] Module Tamper	A module's tamper switch was triggered
[2] ROM Check Error	A module is experiencing a data memory error. Contact distributor for replacement.
[3] TLM Trouble	A module is unable to access the telephone line.
[4] Fail to Communicate	A module failed to communicate with the Monitoring Company.
[5] Printer Trouble	The control panel registers a problem with a printer connected to a Printer Module. Check printer for problems (paper jam, no paper, no power, etc.).
[6] AC Failure	Module power failure.
[7] Battery Failure	Module's battery is disconnected, needs to be recharged or needs to be replaced.
[8] Supply Output	Module has exceeded current limits.
GROUP [4]: NETWORK (COMBUS)	
[1] Missing Keypad	A keypad is no longer communicating with the control panel.
[2] Missing Module	A device is no longer communicating with the control panel.
[3] General Failure	No communication between the devices and the control panel.
[4] Combus Overload	Too many devices (over 127) are on the combus.
GROUP [5]: ZONE TAMPER	
Press **[5]** to display zone(s)	Zones displayed were tampered.
GROUP [6]: ZONE LOW BATTERY	
Press **[6]** to display zone(s)	Zone displayed indicates where a wireless device's battery needs to be replaced. Also, the device's yellow light will flash.
GROUP [7]: ZONE FAULT	

Trouble	Description
Press **[7]** to display zone(s)	A smoke detector is experiencing a wiring problem, needs to be cleaned, or a wireless device is no longer communicating with its receiver (supervision loss).
GROUP [8]: CLOCK LOSS	
Press **[8]** to re-program	The time and date were reset to default. Step 1: Press the **[8]** key Step 2: Set the hour and minutes according to the 24-hour clock (i.e. 9AM is 09:00 and 9PM is 21:00). Step 3: Enter the correct date according to yyyy/mm/dd. Step 4: Press **[CLEAR]** to exit.

If Access Control is enabled in the system and the option Door Access during Clock Loss is ON *(section [3038] option [8]), only the System Master Code and User Codes with the Master feature enabled will be able to program the clock. Enter the System Master or a Master Code, press* [TRBL]*, then continue with the steps above.*

15.13 TROUBLE LATCH

SECTION [3033]: OPTION [6]

With the *Trouble Latch* feature disabled, when a trouble occurs and is corrected, the trouble is automatically cleared and no longer displayed. With the *Trouble Latch* feature enabled, the trouble will remain displayed until it is manually cleared by the user. To clear the trouble, the user must enter the trouble display (see section 15.12) and then exit the trouble display. For LCD and LED keypads, press **[CLEAR]** to exit. For Grafica keypads, press the left action key (**Back**) to exit.

Only troubles that have been corrected can be cleared. If a trouble has not been corrected, it will continue to be displayed even if the user tries to clear the trouble by using the method described above.

15.14 CLEAR BELL CURRENT LIMIT TROUBLE

SECTION [3030]: OPTION [7]

(Default: OFF) When an activated bell output is shorted, a Bell Current Limit trouble is displayed and can be sent to the Central Station. This feature determines how the Bell Current Limit trouble is cleared.

Option		Description
[7]	ON	When an activated bell output is shorted, the Bell Current Limit trouble will remain displayed until it is manually cleared by the user. The user must clear the trouble through the trouble display.
[7]	OFF	When an activated bell output is shorted, the DigiplexNE control panel will attempt to reactivate the bell output once every minute for as long as the bell is activated. The Bell Current Limit trouble is cleared automatically the first time the control panel does not detect a short when attempting to reactivate the bell.

UL Note: For UL installations, section [3030] option [7] must be enabled (ON).

Only troubles that have been corrected can be cleared. If a trouble has not been corrected, it will continue to be displayed even if the user tries to clear the trouble through the trouble display.

Event Group	Event	Feature Group	Feature	Start #	End #
000	*Zone is OK*	**000** **255 = any Zone #**	Zone Numbers	001 to 096	001 to 096
001	*Zone is Open*			001 to 096	001 to 096
002	*Zone is Tampered*			001 to 096	001 to 096
003	*Zone is in Fire Loop Trouble*			001 to 096	001 to 096
004	*Non-reportable Event*	**000**	TLM Trouble (See **NOTE 3** on page 50)	000	000
			Smoke detector reset	001	001
			Arm with no entry delay	002	002
			Arm in Stay mode	003	003
			Arm in Away mode	004	004
			Full arm when in Stay mode	005	005
			Voice module access	006	006
			Remote control access	007	007
			PC Fail to communicate	008	008
			Midnight	009	009
			NEware User Login	010	010
			NEware User Logout	011	011
			User Initiated Call-up	012	012
			Force Answer	013	013
			Force Hang up	014	014
		255	Any Non-reportable Event	Not Used	Not Used
005	*User Code entered on Keypad*	**000**	User Codes 000 to 255	000 to 255	000 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
006	*User/Card Access on Door*	**000**	Door Numbers	001 to 032	001 to 032
		255	Any door #	Not Used	Not Used
007	*Bypass Programming Access*	**000**	One-touch Bypass Programming	000	000
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
008	*TX Delay Zone Alarm*	**000**	Zone Numbers	001 to 096	001 to 096
		255	Any zone #	Not Used	Not Used
009	*Arming with Master*	**000**	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
010	*Arming with User Code*	**000**	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
011	*Arming with Keyswitch*	**000**	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used
012	*Special Arming*	**000**	Auto Arming	000	000
			Arming with WinLoad	001	001
			Late to Close	002	002

Event Group	Event	Feature Group	Feature	Start #	End #
012	*Special Arming (cont'd)*	000	No Movement Arming	003	003
			Partial Arming	004	004
			One-touch Arming	005	005
			Future Use	006	006
			Future Use	007	007
			(InTouch) Voice Module Arming	008	008
		255	Any special arming event	Not Used	Not Used
013	*Disarm with Master*	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
014	*Disarm with User Code*	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
015	*Disarm with Keyswitch*	000	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used
016	*Disarm after alarm with Master*	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
017	*Disarm after alarm with User Code*	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
018	*Disarm after alarm with Keyswitch*	000	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used
019	*Alarm Cancelled with Master*	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
020	*Alarm Cancelled with User Code*	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
021	*Alarm Cancelled with Keyswitch*	000	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used
022	*Special Disarming*	000	Auto Arm Cancelled	000	000
			One-touch Stay/Instant Disarm	001	001
			Disarming with WinLoad	002	002
			Disarming with WinLoad after alarm	003	003
			WinLoad cancelled alarm	004	004
			Future Use	005	005
			Future Use	006	006
			Future Use	007	007

Event Group	Event	Feature Group	Feature	Start #	End #
022	Special Disarming (cont'd)	000	(InTouch) Voice Module Disarming	008	008
		255	Any Special Disarming Event	Not Used	Not Used
023	Zone Bypassed	000 255 = any zone #	Zone Numbers	001 to 096	001 to 096
024	Zone in Alarm			001 to 096	001 to 096
025	Fire Alarm			001 to 096	001 to 096
026	Zone Alarm Restore			001 to 096	001 to 096
027	Fire Alarm Restore			001 to 096	001 to 096
028	Early to Disarm by User	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
029	Late to Disarm by User	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
030	Special Alarm	000	Emergency Panic (keys 1 & 3)	000	000
			Medical Panic (keys 4 & 6)	001	001
			Fire Panic (keys 7 & 9)	002	002
			Recent Closing	003	003
			Police Code	004	004
			Zone Shutdown	005	005
		255	Any Special Alarm Event	Not Used	Not Used
031	Duress Alarm by User	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
032	Zone Shutdown	000 255 = any zone #	Zone Numbers	001 to 096	001 to 096
033	Zone Tamper			001 to 096	001 to 096
034	Zone Tamper Restore			001 to 096	001 to 096
035	Special Tamper	000	Keypad Lockout	000	000
036	Trouble Event	000	TLM Trouble (see **NOTE 2** on page 50)	000	000
			AC Failure	001	001
			Battery Failure	002	002
			Auxiliary Current Limit	003	003
			Bell Current Limit	004	004
			Bell Absent	005	005
			Clock Trouble	006	006
			Global Fire Loop	007	007
		255	Any Trouble Event	Not Used	Not Used
037	Trouble Restore	000	TLM Trouble (see **NOTE 2** on page 50)	000	000
			AC Failure	001	001
			Battery Failure	002	002
			Auxiliary Current Limit	003	003
			Bell Current Limit	004	004
			Bell Absent	005	005
			Clock Trouble	006	006
			Global Fire Loop	007	007
		255	Any Trouble Restore Event	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End #
038	*Module Trouble*	000	Combus Fault	000	000
			Module Tamper	001	001
			ROM/RAM error	002	002
			TLM Trouble	003	003
			Fail to Communicate	004	004
			Printer Fault	005	005
			AC Failure	006	006
			Battery Failure	007	007
			Auxiliary Failure	008	008
		255	Any Module Trouble Event	Not Used	Not Used
039	*Module Trouble Restore*	000	Combus Fault	000	000
			Module Tamper	001	001
			ROM/RAM error	002	002
			TLM Trouble	003	003
			Fail to Communicate	004	004
			Printer Fault	005	005
			AC Failure	006	006
			Battery Failure	007	007
			Auxiliary Failure	008	008
		255	Any Module Trouble Restore Event	Not Used	Not Used
040	*Fail to Communicate on Telephone Number*	000	Telephone Number	001 to 004	001 to 004
		255	Any telephone number	Not Used	Not Used
041	*Low Battery on Zone*	000 255 = any Zone #	Zone Numbers	001 to 096	001 to 096
042	*Zone Supervision Trouble*			001 to 096	001 to 096
043	*Low Battery on Zone Restored*			001 to 096	001 to 096
044	*Zone Supervision Trouble Restored*			001 to 096	001 to 096
045	*Special Events*	000	Power up after total power down	000	000
			Software reset (Watchdog)	001	001
			Test Report	002	002
			Future Use	003	003
			WinLoad In (connected)	004	004
			WinLoad Out (disconnected)	005	005
			Installer in programming	006	006
			Installer out of programming	007	007
		255	Any Special Event	Not Used	Not Used
046	*Early to Arm by User*	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
047	*Late to Arm by User*	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
048	*Utility Key*	000	Utility Key 001 to 064[†*]	001 to 064	001 to 064
		255	Any Utility Key[†*]	Not Used	Not Used
049	*Request for Exit*	000 255 = any Door Number	Door Numbers	001 to 032	001 to 032
050	*Access Denied*			001 to 032	001 to 032
051	*Door Left Open Alarm*			001 to 032	001 to 032
052	*Door Forced Alarm*			001 to 032	001 to 032
053	*Door Left Open Restore*			001 to 032	001 to 032

[†]: See page 51

[*]: See page 50

Event Group	Event	Feature Group	Feature	Start #	End #
054	*Door Forced Open Restore*	**000** **255 = any Door Number**	Door Numbers	001 to 032	001 to 032
055	*Intellizone Triggered*	**000**	Zone Numbers	001 to 096	001 to 096
		255	Any zone number	Not Used	Not Used
056 to 061	*Future Use*	**Future Use**	Future Use	Future Use	Future Use
062	*Access Granted to User*	**000**	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
063	*Access Denied to User*	**000**	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
064	*Status 1*	See **NOTE 1** on page 50	Armed	000	000
			Force Armed	001	001
			Stay Armed	002	002
			Instant Armed	003	003
			Strobe Alarm	004	004
			Silent Alarm	005	005
			Audible Alarm	006	006
			Fire Alarm	007	007
065	*Status 2*	See **NOTE 1** on page 50	Ready	000	000
			Exit Delay	001	001
			Entry Delay	002	002
			System in Trouble	003	003
			Alarm in Memory	004	004
			Zones Bypassed	005	005
			Bypass, Master, Installer Programming	006	006
			Keypad Lockout	007	007
066	*Status 3*	See **NOTE 1** on page 50	Intellizone Delay Engaged (see **NOTE 4** on page 50)	000	000
			Fire Delay Engaged	001	001
			Auto Arm	002	002
			Arming with Voice Module (set until Exit Delay finishes)	003	003
			Tamper	004	004
			Zone Low Battery	005	005
			Fire Loop Trouble	006	006
			Zone Supervision Trouble	007	007
067	*Special Status*	**N/A**	Chime in Partition 1 to 4 (000 to 003 = System 1 to 4)	000 to 003	000 to 003
			Smoke Detector Power Reset	004	004
			Ground Start	005	005
			Kiss Off	006	006
			Telephone Ring	007	007
			Bell on Partition 1 to 8 (008 to 015 = Partitions 1 to 8)	008 to 015	008 to 015
			Fire Alarm in Partition 1 to 8 (016 to 023 = Partitions 1 to 8)	016 to 023	016 to 023
			Open/close Kiss Off in Partition 1 to 8 (024 to 031 = Partitions 1 to 8)	024 to 031	024 to 031
			Keyswitch/PGM Inputs # 01 to 32 (032 to 063 = Keyswitch/PGM Inputs # 01 to 32)	032 to 063	032 to 063
			Status of Access Door 01 to 32 (064 to 095 = Access Doors 01 to 32)	064 to 095	064 to 095
			Trouble in System	096	096

Event Group	Event	Feature Group	Feature	Start #	End #
067	*Special Status (cont'd)*	N/A	Trouble in Dialer	097	097
			Trouble in Module	098	098
			Trouble in Combus	099	099
			Future Use	100 to 102	100 to 102
			Time and Date Trouble	103	103
			AC Failure	104	104
			Battery Failure	105	105
			Auxiliary Current Limit	106	106
			Bell Current Limit	107	107
			Bell Absent	108	108
			ROM error	109	109
			RAM error	110	110
			Future Use	111	111
			TLM 1 Trouble	112	112
			Fail to Communicate 1	113	113
			Fail to Communicate 2	114	114
			Fail to Communicate 3	115	115
			Fail to Communicate 4	116	116
			Fail to Communicate with PC	117	117
			Future Use	118	118
			Future Use	119	119
			Module Tamper Trouble	120	120
			Module ROM error	121	121
			Module TLM error	122	122
			Module Failure to Communicate	123	123
			Module Printer Trouble	124	124
			Module AC Failure	125	125
			Module Battery Trouble	126	126
			Module Auxiliary Failure	127	127
			Missing Keypad	128	128
			Missing Module	129	129
			Future Use	130 to 132	130 to 132
			Global Combus Failure	133	133
			Combus Overload	134	134
			Combus Fail to Communicate	135	135
070	*Clock*	N/A		Hour	Minutes

NOTE 1:

000 = Occurs in all partitions enabled in the system (see section [3031]).			
001 = Partition 1	**003** = Partition 3	**005** = Partition 5	**007** = Partition 7
002 = Partition 2	**004** = Partition 4	**006** = Partition 6	**008** = Partition 8
255 = Occurs in at least one partition enabled in the system.			

NOTE 2:   This TLM trouble event can only be used with the DigiplexNE control panel models that have two dialers.

NOTE 3:   This TLM trouble can only be used with DigiplexNE control panel models that have one dialer.

NOTE 4:   This event cannot be used for a module's PGM programming.

*:   If a Keyswitch Input is used, the input must be defined as "Generates a Utility Key Event on Open" or "Generates a Utility Key Event on Open and Close". If a remote control is used, the remote control button must be defined as a Utility Key button.

†:

Table 14: Actions that Generate a Utility Key Event

Utility Key Event	Actions			
	Keypad Utility Keys	Keyswitch Inputs (definition = [3])	Keyswitch Inputs (definition = [4])	Remote Control
Utility Key Event 1	[1] & [2]	KS** Input 1 opens	KS** Input 1 opens	Utility Key 1 RC button‡
Utility Key Event 2	[4] & [5]	KS** Input 2 opens	KS** Input 1 closes	Utility Key 2 RC button‡
Utility Key Event 3	[7] & [8]	KS** Input 3 opens	KS** Input 2 opens	Utility Key 3 RC button‡
Utility Key Event 4	[CLEAR] & [0] or [*] & [0]	KS** Input 4 opens	KS** Input 2 closes	Utility Key 4 RC button‡
Utility Key Event 5	[2] & [3]	KS** Input 5 opens	KS** Input 3 opens	Utility Key 5 RC button‡
Utility Key Event 6	[5] & [6]	KS** Input 6 opens	KS** Input 3 closes	N/A
Utility Key Event 7	[8] & [9]	KS** Input 7 opens	KS** Input 4 opens	N/A
Utility Key Event 8	[0] & [ENTER] or [0] & [#]	KS** Input 8 opens	KS** Input 4 closes	N/A
Utility Key Event 9	N/A	KS** Input 9 opens	KS** Input 5 opens	N/A
Utility Key Event 10	N/A	KS** Input 10 opens	KS** Input 5 closes	N/A
Utility Key Event 11	N/A	KS** Input 11 opens	KS** Input 6 opens	N/A
Utility Key Event 12	N/A	KS** Input 12 opens	KS** Input 6 closes	N/A
Utility Key Event 13	N/A	KS** Input 13 opens	KS** Input 7 opens	N/A
Utility Key Event 14	N/A	KS** Input 14 opens	KS** Input 7 closes	N/A
Utility Key Event 15	N/A	KS** Input 15 opens	KS** Input 8 opens	N/A
Utility Key Event 16	N/A	KS** Input 16 opens	KS** Input 8 closes	N/A
Utility Key Event 17	N/A	KS** Input 17 opens	KS** Input 9 opens	N/A
Utility Key Event 18	N/A	KS** Input 18 opens	KS** Input 9 closes	N/A
↓	N/A	↓	↓	N/A
Utility Key Event 31	N/A	KS** Input 31 opens	KS** Input 16 opens	N/A
Utility Key Event 32	N/A	KS** Input 32 opens	KS** Input 16 closes	N/A
Utility Key Event 33	N/A	N/A	KS** Input 17 opens	N/A
Utility Key Event 34	N/A	N/A	KS** Input 17 closes	N/A
↓	N/A	N/A	↓	N/A
Utility Key Event 63	N/A	N/A	KS** Input 32 opens	N/A
Utility Key Event 64	N/A	N/A	KS** Input 32 closes	N/A

** Keyswitch
‡ Refer to the Omnia™ Reference and Installation Manual for remote control button programming instructions.

System Event	Default Contact ID Report Code for sections [4032] to [4037]	Default SIA Report Code for sections [4032] to [4037]
Arming with Master Code (##)	3 4A1 - Close by user	CL - Closing Report
Arming with User Code (##)	3 4A1 - Close by user	CL - Closing Report
Arming with Keyswitch (##)	3 4A9 - Keyswitch Close	CS - Closing Keyswitch
Auto Arming	3 4A3 - Automatic Close	CA - Automatic Closing
Arm with PC software	3 4A7 - Remote arm/disarm	CQ - Remote Arming
Late To Close	1 4A4 - Late to Close	OT - Late to Close
No Movement	1 4A4 - Late to Close	NA - No Activity
Partial arming	1 456 - Partial Arm	CG - Close Area
Quick arming	3 408 - Quick arm	CL - Closing Report
Disarm with Master Code (##)	1 4A1 - Open by user	OP - Opening Report
Disarm with User Code (##)	1 4A1 - Open by user	OP - Opening Report
Disarm with Keyswitch (##)	1 4A9 - Keyswitch Open	OS - Opening Keyswitch
Disarm after alarm with Master Code (##)	1 4A1 - Open by user	OP - Opening Report
Disarm after alarm with User Code (##)	1 4A1 - Open by user	OP - Opening Report
Disarm after alarm with Keyswitch (##)	1 4A1 - Keyswitch Open	OS - Opening Keyswitch
Cancel alarm with Master Code (##)	1 4A6 - Open by user	OR - Disarm From Alarm
Cancel alarm with User Code (##)	1 4A6 - Open by user	OR - Disarm From Alarm
Cancel alarm with Keyswitch (##)	1 4A6 - Keyswitch Open	OS - Opening Keyswitch
Auto Arming Cancellation	1 464 - Auto-Arm Time Extended	CE - Closing Extend
Disarm with PC software	1 4A7 - Remote arm/disarm	OQ - Remote Disarming
Disarm after an alarm with PC software	1 4A7 - Remote arm/disarm	OR - Disarm From Alarm
Quick Disarm	1 408 - Quick Disarm	OP - Opening Report
Zone Bypassed (##)	1 57A - Zone bypass	UB - Untyped Zone Bypass
Zone alarm (##)	1 13A - Burglary Alarm	BA - Burglary Alarm
Fire alarm (##)	1 11A - Fire alarm	FA - Fire Alarm
Zone alarm restore (##)	3 13A - Burglary Alarm Restore	BH - Burglary Alarm Restore
Fire alarm restore (##)	3 11A - Fire alarm Restore	FH - Fire Alarm Restore
24Hr Gas alarm (##)	1 13A - Burglary Alarm	GA - Gas Alarm
24Hr Heat alarm (##)	1 13A - Burglary Alarm	KA - Heat Alarm
24Hr Water alarm (##)	1 13A - Burglary Alarm	WA - Water Alarm
24Hr Freeze alarm (##)	1 13A - Burglary Alarm	ZA - Freeze Alarm
24Hr Gas alarm restore (##)	1 13A - Burglary Alarm	GR - Gas Alarm Restore
24Hr Heat alarm restore (##)	1 13A - Burglary Alarm	KR - Heat Alarm Restore
24Hr Water alarm restore (##)	1 13A - Burglary Alarm	WR - Water Alarm Restore
24Hr Freeze alarm restore (##)	1 13A - Burglary Alarm	ZR - Freeze Alarm Restore
Police Code	1 139 - Burglary Alarm	BM - Burglary Alarm
Panic 1 - Emergency	1 12A - Panic alarm	PA - Panic Alarm
Panic 2 - Medical	1 1AA - Medical alarm	MA - Medical Alarm
Panic 3 - Fire	1 115 - Pull Station	FA - Fire Alarm
Recent closing	3 4AA - Open/Close	CR - Recent Closing
Global zone shutdown	1 574 - Group bypass	CG - Close Area
Duress alarm	1 121 - Duress	HA - Hold-up Alarm
Zone shutdown (##)	1 57A - Zone bypass	UB - Untyped Zone Bypass
Zone tampered (##)	1 144 - Sensor tamper	TA - Tamper Alarm
Zone tamper restore (##)	3 144 - Sensor tamper restore	TR - Tamper Restoral
Keypad Lockout	1 421 - Access denied	JA - User Code Tamper
AC Failure	1 3A1 - AC loss	AT - AC Trouble
Battery Failure	1 3A9 - Battery test failure	YT - System Battery Trouble
Auxiliary supply trouble	1 3AA - System trouble	YP - Power Supply Trouble
Bell output current limit	1 321 - Bell 1	YA - Bell Fault
Bell absent	1 321 - Bell 1	YA - Bell Fault
Clock lost	1 626 - Time/Date inaccurate	JT - Time Changed
Fire loop trouble	1 373 - Fire trouble	FT - Fire Trouble
TLM trouble restore	3 351 - Telco 1 fault restore	LR - Phone Line restoral

System Event	Default Contact ID Report Code for sections [4032] to [4037]	Default SIA Report Code for sections [4032] to [4037]
AC Failure restore	3 3A1 - AC loss restore	AR - AC Restoral
Battery Failure restore	3 3A9 - Battery test restore	YR - System Battery Restoral
Auxiliary supply trouble restore	3 3AA - System trouble restore	YQ - Power Supply restored
Bell output current limit restore	3 321 - Bell 1 restore	YH - Bell Restored
Bell absent restore	3 321 - Bell 1 restore	YH - Bell Restored
Clock programmed	3 625 - Time/Date Reset	JT - Time Changed
Fire loop trouble restore	3 373 - Fire trouble restore	FJ - Fire Trouble Restore
Combus fault	1 333 - Expansion module failure	ET - Expansion Trouble
Module tamper	1 145 - Expansion module tamper	TA - Tamper Alarm
Module ROM_RAM_error	1 3A4 - Rom checksum bad	YF - Parameter Checksum Fail
Module TLM trouble	1 352 - Telco 2 fault	LT - Phone Line trouble
Module fail to communicate to central station	1 354 - Fail to communicate	YC - Communication Fails
Printer fault	1 336 - Local printer failure	VT - Printer Trouble
Module AC Failure	1 3A1 - AC loss	AT - AC Trouble
Module battery failure	1 3A9 - Battery test failure	YT - System Battery Trouble
Module Auxiliary supply trouble	1 3AA - System trouble	YP - Power Supply Trouble
Combus fault restore	3 333 - Expansion module failure restore	ER - Expansion Restoral
Module tamper restore	3 145 - Expansion module tamper restore	TR - Tamper Restoral
Module ROM_RAM_error restore	3 3A4 - Rom checksum bad restore	YG - Parameter Changed
Module TLM restore	3 352 - Telco 2 fault restore	LR - Phone Line Restoral
Printer fault restore	3 336 - Local printer failure restore	VR - Printer Restore
Module AC restore	3 3A1 - AC loss restore	AR - AC Restoral
Module battery restore	3 3A9 - Battery test failure restore	YR - System Battery Restoral
Module Auxiliary supply restore	3 3AA - System trouble restore	YQ - Power Supply Restored
Fail to communicate with central station	1 354 - Fail to communicate	YC - Communication Fails
Module RF low battery	1 384 - RF transmitter low battery	XT - Transmitter Battery Trouble
Module RF battery restore	3 384 - RF transmitter battery restore	XR - Transmitter Battery Restoral
Module RF supervision trouble	1 381 - Loss of supervision - RF	US - Untype Zone Supervision
Module RF supervision restore	3 381 - Supervision restore - RF	UR - Untyped Zone Restoral
Cold Start	1 3A8 - System shutdown	RR - Power Up
Warm Start	1 3A5 - System reset	YW - Watchdog Reset
Test Report engaged	1 6A2 - Periodic test report	TX - Test Report
PC software communication finished	1 412 - Successful - download access	RS - Remote Program Success
Installer on site	1 627 - Program mode Entry	LB - Local Program
Installer programming finished	1 628 - Program mode Exit	LS - Local Program Success

APPENDIX 3: CONTACT ID REPORT CODE LIST

CID#	Reporting Code	Prog. Value
MEDICAL ALARMS - 100		
100	Medical Alarm	01
101	Personal Emergency	02
102	Fail to Report In	03
FIRE ALARMS - 110		
110	Fire Alarm	04
111	Smoke	05
112	Combustion	06
113	Water Flow	07
114	Heat	08
115	Pull Station	09
116	Duct	0A
117	Flame	0B
118	Near Alarm	0C
PANIC ALARMS - 120		
120	Panic Alarm	0D
121	Duress	0E
122	Silent	0F
123	Audible	10
BURGLAR ALARMS - 130		
130	Burglary	11
131	Perimeter	12
132	Interior	13
133	24-Hour	14
134	Entry/Exit	15
135	Day/Night	16
136	Outdoor	17
137	Tamper	18
138	Near Alarm	19
139	Intrusion Verifier	1A
GENERAL ALARMS - 140		
140	General Alarm	1B
141	Polling Loop Open	1C
142	Polling Loop Short	1D
143	Expansion Module Failure	1E
144	Sensor Tamper	1F
145	Expansion Module Tamper	20
24-HOUR NON-BURGLARY - 150 & 160		
150	24-Hour Non-Burglary	21
151	Gas Detected	22
152	Refrigeration	23
153	Loss of Heat	24
154	Water Leakage	25
155	Foil Break	26
156	Day Trouble	27
157	Low Bottled Gas Level	28
158	High Temperature	29
159	Low Temperature	2A
161	Loss of Air Flow	2B
FIRE SUPERVISORY - 200 & 210		
200	Fire Supervisory	2C
201	Low Water Pressure	2D
202	Low CO2	2E
203	Gate Valve Sensor	2F
204	Low Water Level	30
205	Pump Activated	31
206	Pump Failure	32

CID#	Reporting Code	Prog. Value
SYSTEM TROUBLES - 300 & 310		
300	System Trouble	33
301	AC Loss	34
302	Low System Battery	35
303	RAM Checksum Bad	36
304	ROM Checksum Bad	37
305	System Reset	38
306	Panel Program Changed	39
307	Self-Test Failure	3A
308	System Shutdown	3B
309	Battery Test Failure	3C
310	Ground Fault	3D
SOUNDER/RELAY TROUBLES - 320		
320	Sounder Relay	3E
321	Bell 1	3F
322	Bell 2	40
323	Alarm Relay	41
324	Trouble Relay	42
325	Reversing Relay	43
SYSTEM PERIPHERAL TROUBLES - 330 & 340		
330	System Peripheral	44
331	Polling Loop Open	45
332	Polling Loop Short	46
333	Expansion Module Failure	47
334	Repeater Failure	48
335	Local Printer Paper Out	49
336	Local Printer Failure	4A
COMMUNICATION TROUBLES - 350 & 360		
350	Communication	4B
351	Telco Fault 1	4C
352	Telco Fault 2	4D
353	Long Range Radio	4E
354	Fail to Communicate	4F
355	Loss of Radio Supervision	50
356	Loss of Central Polling	51
PROTECTION LOOP TROUBLES - 370		
370	Protection Loop	52
371	Protection Loop Open	53
372	Protection Loop short	54
373	Fire Trouble	55
SENSOR TROUBLES - 380		
380	Sensor Trouble	56
381	Loss of Supervision - RF	57
382	Loss of Supervision - RPM	58
383	Sensor Tamper	59
384	RF Transmitter Low Battery	5A
OPEN/CLOSE - 400		
400	Open/Close	5B
401	Open/Close by User	5C
402	Group Open/Close	5D
403	Automatic Open/Close	5E
404	Late to Open/Close	5F
405	Deferred Open/Close	60
406	Cancel	61
407	Remote Arm/Disarm	62
408	Quick Arm	63
409	Keyswitch Open/Close	64

CID#	Reporting Code	Prog. Value
REMOTE ACCESS - 410		
411	Callback Request Made	65
412	Success - Download Access	66
413	Unsuccessful Access	67
414	System Shutdown	68
415	Dialer Shutdown	69
ACCESS CONTROL - 420		
421	Access Denied	6A
422	Access Report By User	6B
SPECIAL TROUBLES - 450 & 460		
450	Exception Open/Close	6C
451	Early Open/Close	6D
452	Late Open/Close	6E
453	Failed to Open	6F
454	Failed to Close	70
455	Auto-Arm Failed	71
456	Partial Arm	72
457	User Exit Error	73
458	User on Premises	74
459	Recent Close	75
461	Wrong Code Entry	76
462	Legal Code Entry	77
463	Re-arm after Alarm	78
464	Auto-Arm Time Extended	79
465	Panic Alarm Reset	7A
466	Service On/Off Premises	7B
SOUNDER RELAY DISABLES - 520		
520	Sounder/Relay Disabled	7C
521	Bell 1 Disable	7D
522	Bell 2 Disable	7E
523	Alarm Relay Disable	7F
524	Trouble Relay Disable	80
525	Reversing Relay Disable	81
COMMUNICATION DISABLES - 550 & 560		
551	Dialer Disabled	82
552	Radio Transmitter Disabled	83
BYPASSES - 570		
570	Zone Bypass	84
571	Fire Bypass	85
572	24-Hour Zone Bypass	86
573	Burg. Bypass	87
574	Group Bypass	88
TEST/MISC. - 600		
601	Manual Trigger Test	89
602	Periodic Test Report	8A
603	Periodic RF Transmission	8B
604	Fire Test	8C
605	Status Report to Follow	8D
606	Listen-in to Follow	8E
607	Walk Test Mode	8F
621	Event Log Reset	90
622	Event Log 50% Full	91
623	Event Log 90% Full	92
624	Event Log Overflow	93
625	Time/Date Reset	94
626	Time/Date Inaccurate	95
627	Program Mode Entry	96
628	Program Mode Exit	97
631	Exception Schedule Change	98

Sections

FCC Warnings

IMPORTANT INFORMATION
This equipment complies with Part 68 of the FCC rules subpart D and CS-03. Inside the cover of this equipment is a label that contains, among other information, the FCC registration number of this equipment.

NOTIFICATION TO TELEPHONE COMPANY
Upon request, customer shall notify telephone company of particular line to which the connection will be made and provide the FCC registration number and the ringer equivalence of the protective circuit.

FCC REGISTRATION NUMBER:	5A7CAN-22633 - AL - E
RINGER EQUIVALENCE NUMBER:	0.1B (U.S. & CANADA)
USOC JACK:	RJ31X (USA), CA31A (CANADA)

TELEPHONE CONNECTION REQUIREMENTS
Except for telephone company provided ringers, all connections to the telephone network shall be made through standard plugs and telephone company provided jacks, or equivalent, in such a manner as to allow for easy, immediate disconnection of terminal equipment. Standard jacks shall be so arranged that, if plug connected thereto is withdrawn, no interference to operation of equipment at customer's premises which remains connected to telephone network shall occur by reason of such withdrawal.

INCIDENCE OF HARM
Should terminal equipment/protective circuitry cause harm to telephone network, telephone company shall, where practicable, notify customer that temporary disconnection of service may be required; however, where prior notice is not practicable, the telephone company may temporarily discontinue service if action is deemed reasonable in circumstances. In case of temporary discontinuance, telephone company shall promptly notify customer and will be given opportunity to correct the situation.

CHANGES IN TELEPHONE COMPANY EQUIPMENT OR FACILITIES
The telephone company may make changes in its communication facilities, equipment operations or procedures, where such actions are reasonably required and proper in its business. Should any such changes render customer's terminal equipment incompatible with the telephone company facilities, the customer shall be given adequate notice to effect the modifications to maintain uninterrupted service.

GENERAL
This equipment shall not be used on coin telephone lines. Connection to party line service is subject to state tariffs.

RINGER EQUIVALENCE NUMBER (REN)
The REN is useful to determine the quantity of devices that you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, sum of the REN's of all devices connected to one line should not exceed five (5). To be certain of the number of devices that you may connect to your line, you may want to contact your local telephone company.

EQUIPMENT MAINTENANCE FACILITY
If you experience trouble with this telephone equipment, please contact facility indicated below for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from network until problem is corrected or until you are sure that the equipment is not malfunctioning.

FCC PART 15, WARNINGS: INFORMATION TO USER
This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to equipment intermittently, the user is encouraged to try to correct the interference by one or more of the following measures: (1) reorient or relocate the receiving antenna; (2) increase the separation between the equipment and receiver; (3) connect the equipment to an outlet on a circuit other than the one to which the receiver is connected, or (4) consult the dealer or an experienced radio/tv technician for assistance.

CAUTION:
Changes or modifications not expressly approved by PARADOX SECURITY SYSTEMS could void the user's authority to operate the equipment.

UL and ULC Warnings

UL AND C-UL INSTALLATION NOTES
The control panel (DGP-NE96) and LCD Keypad (DGP2-641) are UL listed in accordance with standard UL1023 (Household Burglar -- Alarm Systems Units), standard UL985 (Household Fire Warning Units), standard UL1635 (Digital Alarm Communicator System Units), standard UL609 (Local Burglar Alarm Units and Systems), standard UL365 (Police Station Connected Burglar Alarm Units and Systems) and standards UL1610 (Central Station Burglar Alarm Units). This equipment has the capability of being programmed with features and connected to modules not verified for use in UL installations. To stay within these standards, the installer should use the following guidelines when configuring the system:
- All components of the system should be UL listed for the intended application.
- If the system will be used for "Fire" detection, the installer should refer to NFPA Standards #72, Chapter 2. In addition, once installation is complete, the local fire authority must be notified of the installation.
- This equipment must be verified by a qualified technician once every three years.
- All keypads must use a tamper switch.
- Maximum allowed entry delay is 45 seconds.
- Maximum allowed exit delay is 60 seconds.
- Minimum 4 minutes for bell cut-off time.
- The following features do not comply with UL requirements: Bypass Recall, Shabbat, Auto Trouble Shutdown, and "No AC Fail" display.
- Do not connect the primary indicating device to a relay. The installer must use the bell output.
- All modules installed on the system must be UL listed in accordance with the standards listed above.
- The metallic enclosure must be grounded to the cold water pipe.
- The DGP2-ZX4 is not approved for UL systems.

For further details concerning the above information, refer to the UL standards listed and/or the Underwriters Laboratories Inc. Standard for Safety's *Installation and Classification of Burglar and Holdup Alarm Systems.*

Recommended:
- EOL resistor part #2011002000
- Transformers: (A) ATC Frost #FTC3716 16.5Vac, 37VA; (B) ATC Frost #FPS4016 16.5Vac, 40VA; (C) Basler Electronics model #BE156240CAA 16.5Vac (50/60Hz), 20VA or 40VA.
- For CSA listed systems, use Basler Electronics' transformer model #BE116240AAA.
- 12Vdc 4Ah rechargeable acid/lead or gel cell backup battery (YUASA model #NP7-12 recommended) for residential use. 7Ah battery to comply with fire requirements.

All outputs are Class 2 or power-limited, except for the battery terminal.The Class 2 and power-limited fire alarm circuits shall be installed using CL3, CL3R, CL3P, or substitute cable permitted by the National Electrical Code, ANSI/NFPA 70.

The control unit and keypads are intended to be programmed and installed as follows:

Household Fire Warning Systems (US and Canada)
- At least one model DGP2-641 keypad shall be used with the system.
- One Paradox model MR3-UL end-of-line supervision relay. The relay is intended to provide supervision of the smoke detector power circuit.
- One listed audible device rated to operate over the range of 11.4 to 12.5Vdc and rated 85db minimum is required for this application. For example, Wheelock model 46T-12 is compatible. The bell cutoff time shall be programmed for a minimum of 4 minutes (5 minutes for Canada).
- The fire alarm initiating circuit shall employ the listed model 2011002000-PRT end-of-line resistor.
- For Canadian systems, the secure screw for the listed Class 2 transformer shall not be employed.

Household Grade A Burglar Alarm system Unit (US and Canada)
- At least one listed audible device rated to operate over the range of 11.4 to 12.5Vdc and rated 85db minimum. For example, Wheelock model 46T-12 is compatible.
- At least one model DGP2-641 keypad shall be used.
- All initiating circuits shall be programmed and installed as end-of-line supervised.
- Burglar alarm initiating devices shall be rated to operate over the range of 11.4 to 12.5Vdc.
- The bell cutoff time shall be programmed for a minimum of 4 minutes.
- The maximum entry delay shall not exceed 60 seconds. The maximum exit delay shall not exceed 45 seconds.
- For Canadian systems, the secure screw for the listed Class 2 transformer shall not be employed.

Grade B Central Station (Level 0)

Same as Household Grade A Burglar alarm system unit except:
• The ringback feature shall be enabled (section [3037] option [5]; page 30).
• The model AB12M Bell and Bell Housing, manufactured by ADEMCO shall be employed. Bell cutoff time shall be programmed for a minimum of 15 minutes (30 minutes for Canada).
• The Auto Test Report setting must be programmed to send a test transmission to the central station at least once every 24 hours (section [3037] options [3] and [4] on page 28 and section [3041] on page 28).
• Openings and closings must be reported to the central station. Report codes shall be enabled.
• Model 278-0000-035 attack resistant enclosure must be employed.

Grade C Central Station (Level 0)

Same as Grade B Central Station except the Grade A Bell housing may not be employed.

Grade A Local Alarm Units (Level 0)

Same as Grade B Central Station except:
• Bell test must be enabled.

Police Station Connect with Basic Line Security (Level 0)

Same as Grade B Central Station except:
• Openings and closings may not be reported to the central station.

Access Control System

• At least one model DGP2-641AC keypad shall be used with the system.
• The listed compatible model PosiProx reader shall be employed off the keypad.

Control of the Protected Premise

In order to have a UL certified system, the protected area is to be under the responsibility of one ownership and management (i.e. one business under one name). This may be a group of buildings attached or unattached with different addresses but under the responsibility of someone having mutual interest. The person of mutual interest is not the alarm installing company.

Bell Location

The alarm sounding device (bell) must be located where it can be heard by the person or persons responsible for maintaining the security system during the daily arming cycle.

Protection of the Control Unit

The local control unit and the local power supply must be protected by one of the following ways:
• The control unit and audible alarm device must be in a protected area, which is armed 24 hours a day.
• Each partition shall arm the area protecting the control unit and the audible alarm device power supply. This may require duplicate protection armed by each partition. Access to this protected area, without causing an alarm, will require that all partitions be disarmed

In all cases described above, the protected area for the control unit must be programmed as not bypassable.

CTR-21 Warnings

The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, you should contact your equipment supplier in the first instance.

General Warning

This equipment must be installed and maintained by qualified service personnel only.

Warranty

ATTACHMENT LIMITATION NOTICE

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all of the devices does not exceed 100.

Industry Canada certification is only applicable to installation of devices which include transformers approved by the Canadian Standards Association (CSA).